



SCREEN PRINTING

Price List
2016

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TIFLEX

meets your screen printing requirements



CS 30200 - 01450 PONCIN - FRANCE
Tel. +33 (0) 4 74 37 33 80/97
Fax +33 (0) 4 74 37 33 62
international@tiflex.fr
www.tiflex.com

Find our news, news products, current promotional items and updated catalogue and brochures on our corporate website www.tiflex.com



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Price list applies on January 1st 2016, can be modified without notice. Prices are in euros, ex works Poncin. Informations and illustrations are not contractual and are given for informations only.

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General terms and conditions of sale and service provision : page 71

Tiflex is ISO 9001, OHSAS 18001 and ISO 14001 version certified for design, manufacturing, marketing and sale of inks and related chemical products for graphic art, screen printing, industrial marking and paper mill sectors, manufacturing and sale of license plates.



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Carrousel LC

Manual machine dedicated to print 1 to 6 colours on tee-shirts, sweat-shirts, caps...

MODEL	Ref.
4 moving printing stations, 4.4.LC	2367000LC
4/6 moving printing stations, 6.4.LC	2368000LC
6 moving printing stations, 6.6.LC	2368004LC
board reference (size)*	

- Screens and paletts rotate independantly
- Easy adjustment by micrometric buttons
- Fast registration.

* Contact us.



Flash cure

Flash Cure is an intermediate dryer for plastisol inks equipped with short wave infrared transmitters. The start of each cycle is controlled by a contact rod. The Flash Cure can be connected to compressed air enabling the T-shirt cooling.

- Drying time adjustment.
- Cooling time adjustment.
- Equiped with wheels and a brake.

Flash Cure can be used with automatic carrousels MHM.
In this configuration, the flash cure is supplied with 2 rails, without stand.

MODEL	Maxi drying surface	Ref.
Flash	40 x 40 cm	23D4040
	40 x 60 cm	23D4060
Rails for MHM automatic carrousel	40 x 40 cm	23D57305
	40 x 60 cm	
change of infrared transmitting + 4 steatites		23D0000E01



T-IR Drying tunnel

NEW

T-IR Drying tunnel

Infrared drying tunnel is dedicated to polymerize water based and plastisol inks used in textile industry. It can also be used for solvent based inks (epoxy, polyurethane, glycerol...).

- Teflon glass belt resisting to 250°C.
- Variable speed from 1 to 4 m/mn.
- Drying area controlled by a digital panel
- Movable shutters to dry caps for example.



MODEL	Maxi drying width	Ref. 1 element	Ref. 2 elements
T-IR 80 standard	80 cm	2210081TR	2210082TR
T-IR 120 standard	120 cm	2210121TR	2210122TR
T-IR 140 standard	140 cm		2210142TR
Change of infrared transmitting + 4 steatites		2210000E01	

Other dimensions : contact us.

Options: cold element (4 or 6 fans), overcharge for hot air circulation / element.

T-Box drying

Equipped with a new generation of infrared emitters, this dryer has been designed to avoid long preheating time. Combined with a hot air extractor, inks can be cured at lower temperature to avoid pigments migration from synthetic materials (polyester).

- Control pad.
- Teflon® glass filled conveyor. High temperature resistance (250°C)
- Belt time from 30 sec to 2 min.
- Power control infrared emitters power.

- Max open height : 12 cm
- Screwed tubular steel construction mounted with 4 wheels.



MODEL	Maxi drying width	Ref. 1 element	Ref. 2 elements
T-BOX 80 standard	80 cm	2210081TB	2210082TB
T-BOX 120 standard	120 cm	2210121TB	2210122TB
T-BOX 140 standard	140 cm		2210142TB
Change of lamp 1000 W		I0719500	

U.V. drying tunnel

The ultra violet drying tunnel is dedicated to dry U.V. inks.

- Tubes lineic power : 120 W/cm (300 W/inch).
- Teflon glass antistatic belt resisting to heat (250°C).
- Conveyor speed from 10 to 40 m/mn.
- Speed controlled by digital display.
- Equiped with a separate cooling unit : tube and printed substrate.
- Safety of the drying tunnel is ensured by devices which comply with the EU regulation.



MODEL	Drying maxi width	Ref.
TUV 40	40 cm	2213040
TUV 80	80 cm	2213080
TUV 100	100 cm	2213100
TUV 120	120 cm	2213120

Other dimensions : contact us.

Jet air drying tunnel

The jet air drying tunnel is mainly used to accelerate the drying of solvent based inks.

The modular design includes two elements of 2 m long. Hot, cooling, U.V. or I.R. elements can be added.

- Stable and resistant teflon-glass blanket.
- Electronic speed from 0,1 to 15 m/mn (please consult us for other reduction ratios).
- Parallelism and belt conveyor tension adjustments.



- Temperature regulation controlled by thermostat.
- Easy access to control panel.
- Large pipes (200 mm) to exhaust solvent fumes.

MODEL	Drying maxi width	Ref.
AP 80	80 cm	2215070
AP 100	100 cm	2215100
AP 120	120 cm	2215120

Other dimensions : contact us.

Drying racks

Our drying racks feature 60 racks and offer the advantage of minimum overall floor dimensions.

- Stiff and monobloc frame.
- Equipment rests on four rubber wheels.
- Plated racks for easy counting.

MODEL	Ref.
70 x 100 cm	2321000
85 x 125 cm	2322000

Other dimensions : contact us.



«One arme» printing unit

This manual machine prints all flat surfaces: paper, cardboard, self-adhesives, plastic materials, wood and metal panels etc... up to 5 cm thick.

- Perfectly flat perforated honeycomb aluminium plate.
- Strong pump for vacuum.
- Longitudinal and transversal micrometric setting.



MODEL	Maxi printing size	Ref.
60 x 80	60 x 80 cm	23443
80 x 120	80 x 120 cm	23446

Precima



Precima is a manual flat bed printing machine.

- Perfectly flat perforated honeycomb aluminium plate.
- Strong pump for vacuum.
- Longitudinal and transversal micrometric setting.

MODEL	Maxi printing size	Ref.
40 x 60	40 x 60 cm	2334300
60 x 80	60 x 80 cm	2334400

Bench combinetuve



Compact bench equipment to expose and dry silk screens up to 60 x 80 cm.

- UV neon tubes.
- One dry rack.
- Settable temperature.

MODEL	Maxi size	Ref.
608/1 drawer	60 x 80 cm	23L6080
608/3 drawers		23L6083
exchange UV bulb		*

* Contact us.

Combinetuve

Combinetuve is a metallic cabinet to expose and dry silk screens up to 120 x 160 cm.

- UV neon lighting tube.
- Light integrator.
- 3 drying racks.
- Settable temperature.

MODEL	Maxi size	Ref.
812	80 x 120 cm	23M502121
1014	100 x 140 cm	23M502122
1216	120 x 160 cm	23M502123
exchange UV bulb		23M50212P02



Exposure and drying unit



Compact equipment dedicated to dry and expose silk screens.
3 sizes :

- Pneumatic under frame.
- Halogen lamp.
- Light integrator.
- 3 drying racks.
- Settable temperature.

MODEL	Maxi size	Ref.
812	80 x 120 cm	23L502102
1014	100 x 140 cm	23L502101
1216	120 x 160 cm	23L502103
Bulb HP M15		2374005

Exposure frame & Halogen lamp



Exposure frame delivered with vacuum pump and ready to use.

MODEL	Maxi printing size	Ref.
80 x 100	80 x 100 cm	23002
100 x 130	100 x 130 cm	23004
130 x 170	130 x 170 cm	23006

Other dimensions : contact us.



Halogen lamp

This halogen exposure lamp is equipped with a light integrator.

- The height of the light projector is adjustable.

MODEL	Ref.
halogen lamp 5000 W with integrator	23K502100
bulb HP M15	2374005

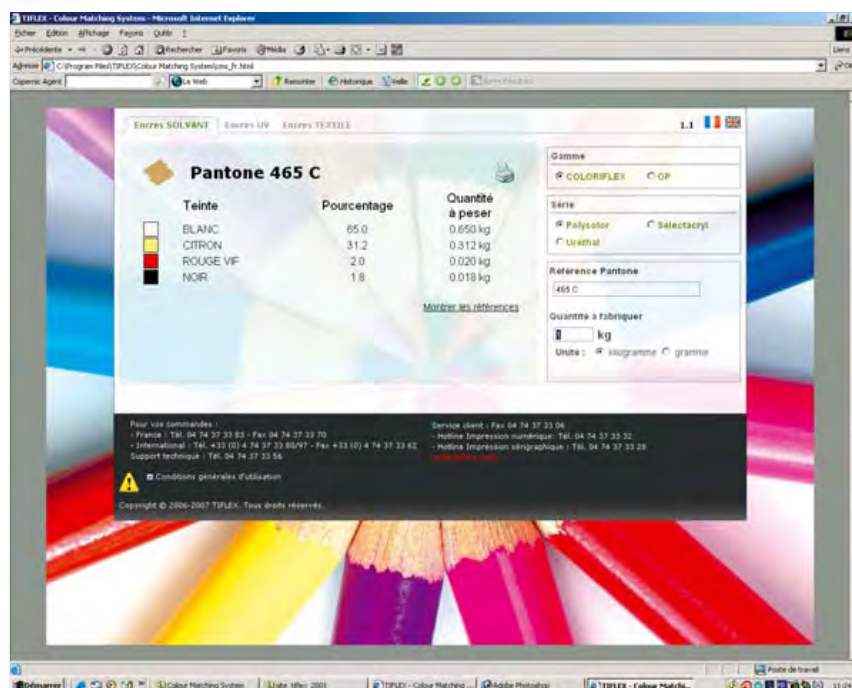
Stencil developing unit



The stencil developing unit is dedicated to washout screens after exposure.

MODEL	Ref.
100 x 130 cm	23A20
130 x 170 cm	23A40
LIGHTING OPTION : WHITE AND YELLOW	
for 100 x 130 cm model	23A25
for 130 x 170 cm model	23A45

PANTONE® COLOUR MATCHING SYSTEM



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FRAMES & SCREENS

Bare frames in aluminium

- They offer a very good dimensional stability and are very light.
- They are rustproof and withstand water and solvents.
- The standard outside dimensions increase by 10 cm steps.
- On request, we manufacture any shape, section and size.

DESCRIPTION	Ref.	Euro
Bare frames in alu	contact us	



Bare frames in wood

- They are still commonly used.
- The standard outside dimensions increase by 10 cm steps.
- On request, we manufacture any shape, cross section and particular sizes.

DESCRIPTION	Ref.	Euro
Bare frames in wood	contact us	



Pre-stretched screens in aluminium or wood

- Our stretching department manufactures the above mentioned frames straight or edge stretched with a complete range of meshes from 18 up to 200 mesh/cm in nylon or polyester, white, or yellow.

DESCRIPTION	Ref.	Euro
Pre-stretched screens	contact us	



- Thanks to high performance equipment, we also supply high-tech pre-stretched screens in 2 special aluminium sections.

Special screens in aluminium or wood

- We can manufacture special frames in the most various shapes: curved, round, excentered, tubular... and with different sections: metal corners, reinforcing, grooves, separations...

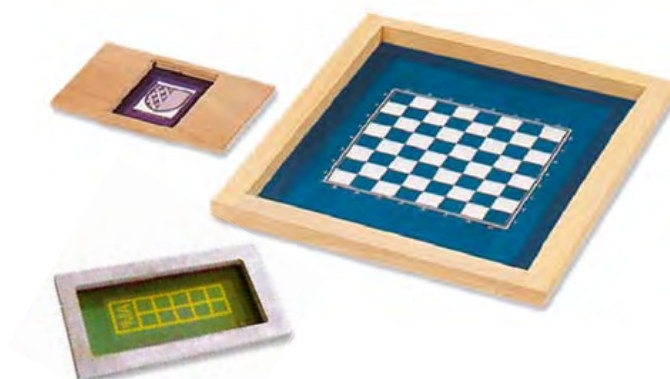
DESCRIPTION	Ref.	Euro
Special screens	contact us	



Finish screens in aluminium or wood

- The finished screens, reinforced and protected with adhesive tapes are supplied ready to use.

DESCRIPTION	Ref.	Euro
Finished screens	contact us	



Complete range from 10 to 180 mesh/cm, of polyester fabrics (Tergal®) specially designed for silk screen printing. Our fabrics are produced using mesh diameters that are rigorously constant and perfectly controlled. Extremely regular weaving is essential for obtaining quality prints and is guaranteed by the use of the most modern machines. All our fabrics are monofilament and have been heat stabilized. They are highly resistant to water, solvents, oxidants and chlorinated products. Images can be removed and the fabric can be used several times.

Polyester fabrics

- High tear resistance.
- An above-average even extensibility in the 2 directions.
- A reduced loss of tension.
- they are abrasion-resistant and waterproof.
- Thinner : 0.4% at 20°C and 65% relative humidity.

DESCRIPTION	threads/cm	Name	Width/cm	Ref.	Euro
White polyester	18	18-160W-PW	115	2850436X	24,60
White polyester	21	21-160W-PW	158	2850839X	26,40
White polyester	32	32-100W-PW	158	2851839X	27,10
White polyester	43	43-80W-PW	115	2853536X	25,50
		43-80W-PW	158	2853539X	27,10
		43-80W-PW	212	2853545X	40,60
Yellow polyester	43	43-80Y-PW	158	2873539X	28,50
White polyester	49	49-70W-PW	115	2853936X	25,50
			158	2853939X	27,10
Yellow polyester	49	49-70Y-PW	158	2873939X	28,50
White polyester	51	51-70W-PW	212	2854043X	41,50
White polyester	55	55-64W-PW	158	2854339X	30,80
Yellow polyester	55	55-64Y-PW	158	2874339X	31,30
White polyester	62	62-64W-PW	115	2854436X	26,60
	62	62-64W-PW	158	2854439X	30,70
Yellow polyester	62	62-64Y-PW	158	2874439X	35,40
White polyester	68	68-55W-PW	115	2854836X	29,40
			158	2854839X	40,40
Yellow polyester	68	68-55Y-PW	158	2874839X	41,40
White polyester	77	77-55W-PW	115	2855036X	30,70
			158	2855039X	40,70
Yellow polyester	77	77-55Y-PW	158	2875039X	41,80
			212	2875041X	55,80
White polyester	90	90-48W-PW	115	2855636X	33,30
			158	2855639X	42,50

DESCRIPTION	threads/cm	Name	Width/cm	Ref.	Euro
Yellow polyester	90	90-48Y-PW	158	2875639X	44,40
			212	2875641X	61,20
White polyester	100	100-40W-PW	115	2856036X	33,30
			158	2856039X	42,50
Yellow polyester	100	100-40Y-PW	158	2876039X	44,40
			212	2876041X	61,20
White polyester	120	120-34W-PW	115	2856836X	37,90
			136	2856837X	43,90
			158	2856839X	47,90
			212	2856841X	64,70
Yellow polyester	120	120-34Y-PW	115	2876836X	40,40
			158	2876839X	49,60
			212	2876841X	69,60
Yellow polyester	120	120-40Y-PW	158	2876809X	49,60
			212	2876811X	69,60
Yellow polyester	130	130-34Y-PW	158	2877337X	58,40
White polyester	140	140-34W-PW	115	2857636X	51,60
Yellow polyester	140	140-34Y-PW	158	2877639X	67,30
			212	2877641X	87,70
White polyester	150	150-34W-PW	158	2858039X	75,30
Yellow polyester	150	150-34Y-PW	158	2878039X	82,60
Yellow polyester	150	150-31Y-PW	158	2878059X	86,30
White polyester	165	165-34W-TW	115	2858436X	68,60
Yellow polyester	165	165-34Y-TW	158	2878439X	92,70
Yellow polyester	180	180-31Y-TW	158	2878559X	95,50

The width is given by way of an indication and may vary several centimeters.
On request, we can supply others quality and stitch material (ex : polyamid).

Coating trough

- Made from light extruded alloy, supplied in the requested length, the Coating trough has 2 removable plastic ends for easy cleaning.
- Its round, uniform profile ensures high quality coating at constant thickness.

DESCRIPTION	Ref.	Euro
Coating trough, length on request	2540000NC	76,60
Endcaps for coating trough	2540030	3,50



Diazoic photosensitive emulsions

DIAZO 19 S (for solvents inks)

- Solution used by thick or thin coat.
- good resolution.
- Solvents resist.
- Also suitable for small printing with water inks.

DIAZO 149 S (for solvents inks)

- Solution used by thick or thin coat.
- Good resolution.
- Solvents resist.

DIAZO 19 T (for water inks)

- Solution used by thick or thin coat.
- Water inks resist.
- Also suitable for small printing with solvents inks.



DESCRIPTION	Colour after exposure on white mesh	Packaging	Ref.	Euro
Diazo 19 S	green	0,9 l can	2512031	21,70
		6 x 0,9 l box	25120316	110,50
		4,5 l drum	2514031	86,10
Diazo 149 S	brown	0,9 l can	2512041	27,70
		6 x 0,9 l box	25120416	150,80
		4,5 l drum	2514041	114,10
Diazo 19 T	green	0,9 l can	2512061	21,70
		6 x 0,9 l box	25120616	110,50
		4,5 l drum	2514061	86,10

Screen coated with these solutions and stocked in obscurity can be conserved 4 months at 20°C . Active decoating products : Oxygel, Oxycol and Oxylic. Delivered with sensitizer dose.

Can be used with all types of exposure lamps: fluorescent UV tubes, HPR and halogenid lamps...

Dual cure diazo / Photopolymer photosensitive emulsions

UST (universal but more suitable for solvent-based inks)

- Multi-purpose.
- High definition.

200 S (for solvent-based ink)

- High definition.

200 T (universal emulsion)

- Good resistance to water-based ink.
- It can also be used with plastisols and some solvent based inks.

400 ST (universal emulsion)

- High definition
- Wide exposure time
- Suitable and resistant to solvent based ink and water based ink.

The active decoating agents : Oxygel, Oxycol* and Oxylic.

Dual cure emulsions, supplied with sensitizer dose.

Adapted to halogen lamps.



DESCRIPTION	Colour after exposure on white mesh	Packaging	Ref.	Euro
UST	blue	0,9 l can	2572031	29,30
		6 x 0,9 l box	25720316	161,10
		4,5 l drum	2574031	122,20
200 S	blue	0,9 l can	25C2010	28,40
		6 x 0,9 l box	25C20106	155,00
		4,5 l drum	25C4010	119,00
200 T	violet	0,9 l can	25C2030	28,40
		6 x 0,9 l box	25C20306	155,00
		4,5 l drum	25C4030	119,00
400 ST	blue	0,9 l can	25C2050	29,40
		6 x 0,9 l box	25C20506	155,00
		4,5 l drum	25C4050	122,00

*Oxycol : Oxidising solid, Category 1 ; Skin corrosion, Category 1B ; Specific target organ toxicity (repeated exposure), Category 1 ; Hazardous to the aquatic environment - Acute hazard, Category 1

Additional screen manufacturing products

POLYURETHANE ADHESIVE

- Two-component polyurethane base used for gluing silkscreened fabrics stretched over wooden or metal frames.
- good resistance to solvents (cleaning) and hot water (stripping).



DESCRIPTION	Ref.	Euro
Red polyurethane adhesive, 830 g pots and catalyst, 170 g pots	2522044	33,40
Hardener 170 gr more for PU paste, red	2520844	12,00
Blue polyurethane adhesive Ultrafix SB5 Plus, 4,5 kg bucket	2574098	110,50
Catalyst SB5 Plus, pot de 0,9 kg pot	2572097	62,20

PREP'ECRAN

- Degreasing agent prepares the fabric fibres ready for coating with the solutions and assembly of the capillary films.

DESCRIPTION	Packaging	Ref.	Euro
Prep'écran	5 l jerricans	2544042	50,30

Photosensitive solutions SAATI

- **GRAPHICHU**, this industrial solution is compatible with UV inks, solvents and water base inks. It ensures a high resolution printing on all type of fabrics.
- **VITRUM HHU**, compatible solution with water and solvents bases inks. Recommended for all glass applications with small stitch material.
- **TEXTIL HT**, compatible solution with water and solvents bases inks. High resolution, preconised for all textil applications Physical and chemical resistances reinforced by Fixer 9 on dry and exposed emulsion.
- **CERAMIC HT1**, triple cure emulsion dedicated to direct printing on ceramics with abrasive water based inks. We advise you to use it with catalyzer Fixer 9 in order to increase mechanical resistance.
Rate of dry extract : 48%

DESCRIPTION	Packaging	Ref.	Euro
Graphic HU purple + D31*	6 x 0,9 kg box	2572030	187,10
	2 x 4,5 kg box	2574030	262,60
Vitrum HHU blue + D31*	2 x 4,5 kg box	2574050	284,80
Textil HT blue + D51*	2 x 4,5 kg box	2574060	251,40
Textil PV red	6 x 0,9 kg box	2572062	224,50
Ceramic HT1 blue + D51*	2 x 4,5 kg box	2574070	264,10

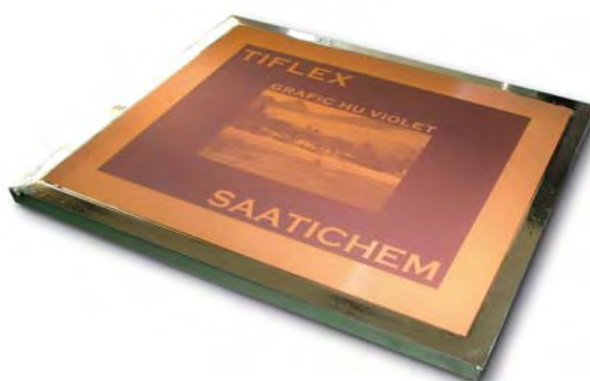
D31, D51 : Eye irritation, Category 2

CATALYST SAATI

- **FIXER 9**, catalyst for exposed and dry emulsion. It increases chemical and mecanical screens resistance.

WARNING: after application, you can not decoate.

DESCRIPTION	Packaging	Ref.	Euro
Fixer 9	1 kg pot	2572090	24,90



Capillary films

- Presensitized diazoic photo-films for solvents and UV inks. It combines indirect film advantages (coat regularity and high resolution) and direct emulsion.
- Coated with a 20 or 30 μ thick emulsion on a polyester substrate of 75 μ .
- Coated with a 200 μ thick emulsion on paper.
- simple, fast and easy to use.
- Assembly by capillary action after screen water wetting.
- High resolution.
- High solidity.
- Perfect dimensional stability.



DESCRIPTION	Packaging	Ref.	Euro
THIN CAPILLARY FILMS (DIAZOIC), GREEN			
Capillary film 20 μ	10 x 1,04 m roll	2051200N	252,60
Capillary film 30 μ	10 x 1,04 m roll	2051600N	276,60

DESCRIPTION	Packaging	Ref.	Euro
THICK CAPILLARY FILMS (PHOTOPOLYMER) - RED			
Thickness 200 μ	43 x 61 cm 10 sizes pack	2042010	511,60
Thickness 400 μ	43 x 61 cm 10 sizes pack	2044010	604,70

Filmac rolls

- For silkscreens manufacturing, Tiflex proposes its masking films, assembly and laser stencil film.

LASKING FILM

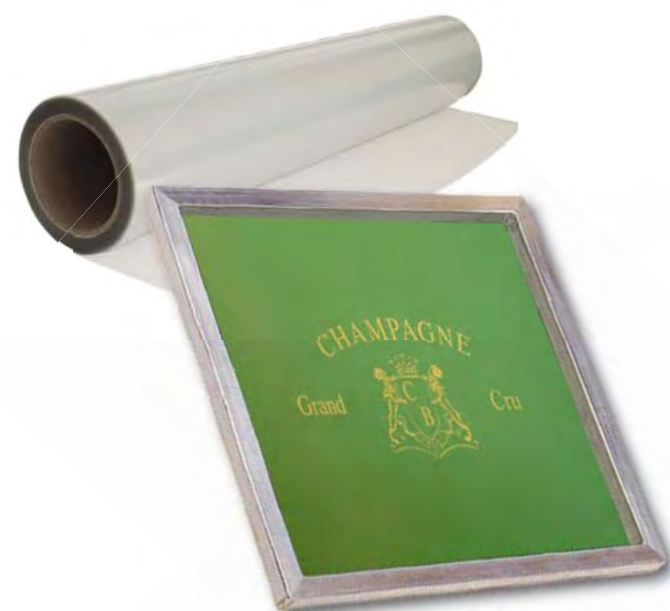
- Can obtain positives or negatives'.
- Exposition or colours selection.
- Filmac is manual cutting or on plotter piloted by micro computer.
- Equiped with transparent polyester base.
- High stability of 80 or 130 μ on which is laminated an inactinic translucent pelliculable coat.
- Its red pelliculable coat is stickable.



DESCRIPTION	Packaging	Ref.	Euro
Red filmac 80 μ	10 m x 1,03 m roll	2021030	128,10
	50 m x 1,03 m roll	2021045	623,60
	10 m x 1,23 m roll	2021130	155,70
	50 m x 1,23 m roll	2021145	738,00
Red filmac 130 μ	10 m x 1,03 m roll	2022030	152,50
	50 m x 1,03 m roll	2022045	732,10
	10 m x 1,23 m roll	2022130	181,50
	50 m x 1,23 m roll	2022145	901,20

MOUNTING FILM

DESCRIPTION	Packaging	Ref.	Euro
Polyester crystal sheet 100 μ	20 m x 1,04 m roll	2074000N	132,20



Additional products for reinforcing and retouching

REINFORCING SOLUTION

- Used to reinforce screens alterations.
- Brushed on.
- Transparent.
- Fully resistant to all solvents.
- It can be removed with the traditional de-engraving products.

FILLING SOLUTION XD 153

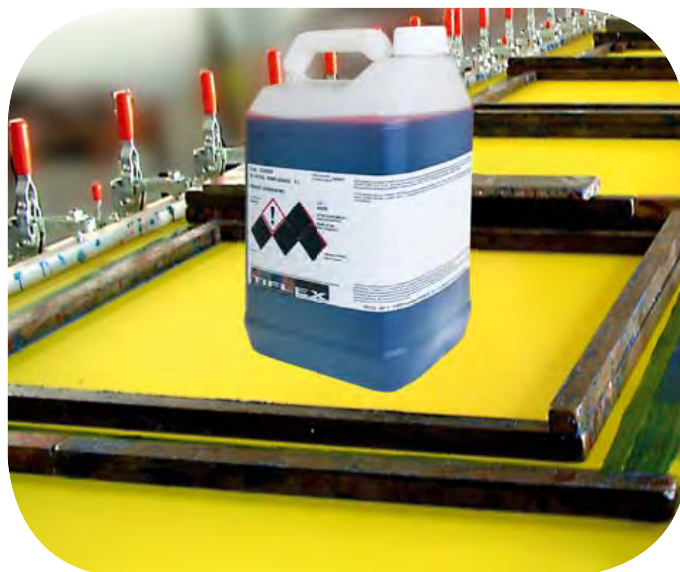
- Recommended whenever large areas need to be blocked up.
- To be applied with a spatula or hollow sizing doctor blade.
- Odourless.
- Dries quickly.
- Resists all solvents.
- Easily removed with water.

RESISTALO SOLUTION

- Used for retouching, reinforcing screens.
- Which must resist inks diluted with water.
- Applied with a brush or spatula.
- Dries quickly.
- Removed using a solvent.

BLUE PORE STOPPER

- Coloured blue.
- Used for alterations and to reinforce screens.
- Brushed on.
- Fully resistant to all solvents.
- It can be removed with the traditional de-engraving products.



DESCRIPTION	Packaging	Ref.	Euro
Reinforcing solution	1 l pot	2522010	11,60
Filling solution XD 153	5 l jerricans	2524020	39,10
Resistalo solution	1 l boxes	2522080	19,70
Blue pore stopper	5 l jerricans	2524022	58,60

Complementary products

POLYNOIR PLASTIC TAPE

- Guarantees excellent screen water- tightness.
- Polypropylene support is extremely.
- Resistant to physical and chemical stress.

POLYTOIL ADHESIVE TAPE

- It offers the same mechanical strength characteristics as with Polynoir plastic tape but with a greater flexibility.
- Greater adherence when used with screen washers.

SILVER ADHESIVE TAPE

- Applied directly on the fabric, on the outer side of the screen, it stops any «leaks».
- Fully resistant to solvents and thinners.

MASKING AUTO ADHESIVE RUBBER



DESCRIPTION	Packaging	Ref.	Euro
Polynoir plastic tape	rolls 66 m x 25 mm*	2550050	11,30
	rolls 66 m x 38 mm*	2550100	15,10
	rolls 66 m x 50 mm	2550150	19,00
Polytoil adhesive tape	rolls 50 m x 25 mm*	2552050	15,10
	rolls 50 m x 38 mm*	2552100	22,30
	rolls 50 m x 50 mm	2552150	30,90
	rolls 50 m x 75 mm*	2552200	42,70
Silver adhesive tape	rolls 66 m x 25 mm	2553050	91,70
	rolls 66 m x 38 mm	2553100	132,70
	box of 36 rolls 66 m x 25 mm	2553060	1 395,70
Masking auto adhesive rubber	box of 36 rolls 66m x 38 mm	2553110	2 192,50
	box of 6 rolls 50 m x 38 mm	2554000	37,30
	box of 6 rolls 50 m x 50 mm	2554010	62,20

* Until the stock lasts

MISCELLANEOUS PRODUCTS

Additional products for emulsion remover

OXYLIC

- Ready-to-use liquid.
- Most solutions are solubilised in just 3 to 5 mn.
- Non-polluting, chlorine-free and biodegradable, it meets all requirements of the hygiene and safety committees.

OXY SOL

- Concentrate powder (100 g of powder = 5 to 10 l of liquid).
- Brushed on.
- Non-polluting, chlorine-free and biodegradable, it meets all requirements of the hygiene and safety committees.
- Action time: 3 to 5 mn.

OXYGEL

- Ready-to-use gel is brushed on most solutions and photo-sensitive films are solubilised in just 3 to 5 mn non-polluting, chlorine-free and biodegradable, it meets all requirements of the hygiene and safety committees.

CONCENTRATED DE-ENGRAVING AGENT

- Intended for manual or automatic de-engraving of the screens.
- Most solutions and photosensitive films are solubilized in just 3 to 5 mn.
- diluted with water (1 volume = 20 volumes of water).

FINISHER 4886

- Used in combination with de-engraving agents, by dissolving any undesirable traces remaining on the fabric.

DESCRIPTION	Packaging	Ref.	Euro
Oxylic	5 l jerricans	2534050	49,90
Oxysol*	per 100 gr	2530530	19,70
	per 500 gr	2531730	70,10
	per 25 kg	2536030	2 482,10
Oxygel	5 l buckets	2534060	60,30
Concentrated de-engraving agent	5 l jerricans	2534070	157,70
Finisher 4886	1 l bottle	2082080	21,10

*Oxysol : Oxidising solid, Category 1 ; Skin corrosion, Category 1B ; Specific target organ toxicity (repeated exposure), Category 1 ; Hazardous to the aquatic environment - Acute hazard, Category 1



Products for the treatment of ghost images

SOLVYPÂTE AND OXYPÂTE

SOLVYPÂTE

- Prepares the fabric for the fast and efficient action of Oxypâte (maximum 15 to 30 mn).

OXYPÂTE

- Product used to eliminate ghost images.

SOLVYMAGE AND OXYMAGE

SOLVYMAGE

- The action Oxymage is completed by application of Solvymage.

OXYMAGE

- High viscosity product used to eliminate ghost images and to prevent fabric yellowing due to the use of diazo compound sensitizer.
- Application on a screen lasts approximately 12 hours (overnight).

APPLICATOR BRUSH

- Nylon brush used to apply all products for the treatment of ghost images.

DESCRIPTION	Packaging	Ref.	Euro
Solvypâte	5 l bottles	25A4040	48,00
Oxypâte	5 l buckets	25A4030	59,20
Solvymage	5 l bottles	25A4020	69,50
Oxymage	5 l buckets	25A4010	61,60
Applicator brush	unit	2542090	15,30



Miscellaneous supplies for ink preparation

DESCRIPTION		Packaging	Ref.	Euro
Empty metal boxe 1 l		boxes of 6	2542078	12,30
1 l empty potsmade from black polyethylene (with covers)		boxes of 14	2542080	35,50
5 l empty buckets black (with covers)		boxes of 6	2542070	41,60
Mixing cups (with covers) made from transparent polypropylene	250 CC	25	2542060	17,80
	550 CC	25	2542062	27,00
Wooden sticks suitable for the mixing cups	1 l	20	2542020	19,30
	5 l	20	2542040	22,00
Mixing knives, stainless steel blade	150 mm	unit	2540150	19,30
	250 mm	unit	2540250	30,50
8 kg ink weight scale precision 0,1		unit	2548800	477,40
Pantone® colour chart (1341 hues)		unit	2540120	125,00

Miscellaneous cleaning supplies

DESCRIPTION		Packaging	Ref.	Euro
Clean cloths, 10 kg bags		unit	2545050	87,80
Cellulose wadding, size 35 x 29 cm		2 rolls of 1500	2545012	105,20
Humidifier can	1,9 l	unit	2546020	199,10

Miscellaneous hygiene supplies

DESCRIPTION	Packaging	Ref.	Euro
Protective gloves, against solvents, the pair	unit	2546050	23,70
Disposable latex gloves, boxes of 100 gloves	unit	2546055	33,60
Performance gel, 5 l bottles	unit	2580022	56,60

Miscellaneous printing supplies

DESCRIPTION		Packaging	Ref.	Euro
Stainless steel spatulas have rounded corners	100 mm	unit	2540045	11,10
	140 mm	unit	2540055	13,20
Stop-sec (freon free), drying inhibitor, 500 ml aerosol spray		boxes of 6	3261757	48,20
Aerofix S, adhesive especially designed to hold the fabrics while printing, 600 ml aerosol spray		boxes of 12	25D1815	79,80
Takter 1, water based adhesive to fix fabric on the printing board		boxes of 12	25D1720	83,70
Takter 4000, Solvent based spray adhesive(600 ml) used to hold the fabric on the pallet. High resistance to flashcure. Can be applied for embroidery.		boxes of 12	25D1830	85,60
Water based glue 0380 applied with foam roll or brush on pallet		5 kg	3344078	105,70
Adhesive for palette		4,5 l jerricans	25D3910	83,40
Pneumatic gun for adhesive		unit	2547500	1 202,20
PVC shims for feeding to make the position of the printed sheets easier	0,4 mm	25	2542504	6,60
	1 mm	25	2542510	6,90
Temperature indicators (from 138 to 188°C)		30 strips	2547000	145,60



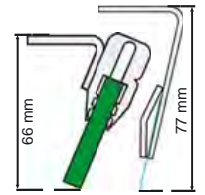
Squeegees & flood bars

Complete range of squeegees suitable for the various printing systems and most existing machines. Cut to the required length. Unless clear notification in the order, they are delivered in average hardness.

HLS TYPE,

- Metal profile squeegee, equipped with 50 x 9 mm interchangeable polyurethane.
- Flood bar with interchangeable blued steel blade.

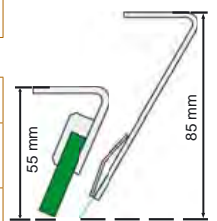
DESCRIPTION	Ref.	Euro
HLS type, length on request, the meter	contact us	434,10
Flood bar HLS type, length on request, the meter	24020HL	121,70



MO TYPE

- Metal profile squeegee, equipped with 35 x 7 mm interchangeable polyurethane.
- Flood bar with interchangeable blued steel blade.

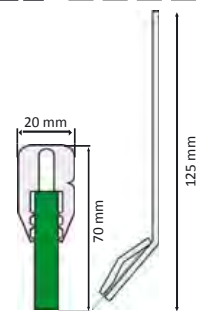
DESCRIPTION	Ref.	Euro
MO type, length on request, the meter	contact us	434,10
Flood bar MO type, length on request, the meter	24020MO	121,70



A TYPE

- Metal profile squeegee, equipped with 50 x 9 mm interchangeable polyurethane.
- Flood bar with interchangeable blued steel blade.

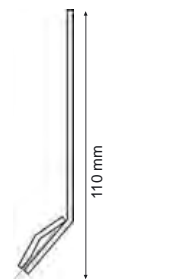
DESCRIPTION	Ref.	Euro
A, length on request, the meter	contact us	341,00
Flood bar A type, length on request, the meter	24020	134,30
Flood bar BP type, length on request, the meter	24021	134,30
Replacement steel blade, length on request, the meter	24025	32,00



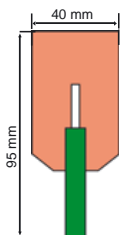
B TYPE

- Flood bar with interchangeable blued steel blade.

DESCRIPTION	Ref.	Euro
Flood bar B type, length on request, the meter	contact us	



«One arm» squeegee

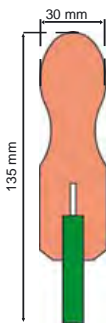


C TYPE

- Wooden profile, equipped with polyurethane 50 x 9 mm.

DESCRIPTION	Ref.	Euro
C type, length on request, the meter	contact us	126,40

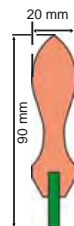
Squeegees for manual printing



D TYPE

- Large wooden profile, equipped with polyurethane 50 x 9 mm.

DESCRIPTION	Ref.	Euro
D type, length on request, the meter	contact us	126,40



E TYPE

- Small wooden profile, equipped with polyurethane 25 x 5 mm.

DESCRIPTION	Ref.	Euro
E type, length on request, the meter	contact us	123,20

D.A TYPE

- Large aluminium profile, equipped with polyurethane 50 x 9 mm.

DESCRIPTION	Ref.	Euro
Type D.A, length on request, the meter	contact us	141,20
Rubber and tips, the pair	24630CC	3,50



QUALITIES

- Monobloc (single-component).
- Composite (2 qualities one stuck above the other).
- 3C (triple layers).

Shore hardness variable from 65 to 85° (+/- 2,5 shores)
identified by the colour:

- red 65°, green 70°, blue 75°, gold 75° and 80°.

Solid profile and double bevel 62 and 45°.

Polyurethanes monoblocs

DESCRIPTION	Ref.	Euro
MONOBLOCS 20 x 5 mm		
Red, solid, 3 m strip	244200510C3	94,80
Green, solid, 3 m strip	244200510D3	94,80
Gold 75° shore, solid, 3 m strip	244200510K3	94,80
Gold 80° shore, solid, 3 m strip	244200511K3	94,80
Green 75° shore, double bevel 62°, 3 m strip	2442005SP9	115,65
MONOBLOCS 25 x 5 mm		
Red, solid, 3 m strip	244250510C3	108,85
Green, solid, 3 m strip	244250510D3	108,85
Blue, solid, 3 m strip	244250510E3	108,85
Gold 75° shore, solid, 3 m strip	244250510K3	108,85
Gold 80° shore, solid, 3 m strip	244250511K3	108,85
Green, double bevel 45°, 3 m strip	244250535L3	135,65
Blue, double bevel 45°, 3 m strip	244250535M3	135,65
Gold, 80° shore, double bevel 45°, 3 m strip	244250535N3	135,65
MONOBLOCS 35 x 7 mm		
Red, solid, 3 m strip	244350710C3	156,05
Green, solid, 3 m strip	244350710D3	156,05
Gold 75° shore, solid, 3 m strip	244350710K3	156,05
MONOBLOCS 40 x 5 mm		
Green, solid, 3 m strip	244400510D3	157,35
Blue, solid, 3 m strip	244400510E3	157,35
MONOBLOCS 40 x 8 mm (machine Schenk)*		
Green, plain, 3,33 m strip, 75°shore	244400810Q3	161,20
Red, Bullnose, 3,33 strip, 65 shore	244400810P3	161,20
MONOBLOCS 50 x 6 mm		
Red, solid, 3 m strip	244500610C3	161,20
Green, solid, 3 m strip	244500610D3	161,20
Blue, solid, 3 m strip	244500610E3	161,20
MONOBLOCS 50 x 7 mm		
Red, solid, 3 m strip	244500710C3	161,20
Green, solid, 3 m strip	244500710D3	161,20
Gold 80° shore, solid, 3 m strip	244500711K3	161,20
MONOBLOCS 50 x 9 mm		
Red, solid, 3,66 m strip	244500910C4	171,35
Green, solid, 3,66 m strip	244500910D4	171,35
Blue, solid, 3,66 m strip	244500910E4	171,35
Brown, solid, 3,66 m strip	244500910F4	171,35
Gold 75° shore, solid, 3,66 m strip	244500950K4	171,35
Gold 80° shore, solid, 3,66 m strip	244500911Z4	171,35

Other dimensions : contact us.

* Minimum Order: 3 lengths. Within 4 weeks.

Polyurethanes composites

DESCRIPTION	Ref.	Euro
COMPOSITES 50 X 9 MM		
Red, solid, 3 m strip	244500950C3	189,35
Green, solid, 3 m strip	244500950D3	189,35

Polyurethanes 3C

DESCRIPTION	Ref.	Euro
POLYURETHANNES 3C, 50 X 9 MM		
Red, 3,66 m strip	245704	193,20
Green, 3,66 m strip	245604	193,20



FEW

EXAMPLES ...



... AND MANY OTHERS APPLICATIONS !
CONTACT US FOR FURTHER ENQUIRIES

Textiles inks



Pages	26	28	30	32	33	34	35	36	37
Inks	FLASHCOLOR	EVEREST	HIMALAYA	DREAMFLASH	AQUADIR	AQUATRANS	HYDROCOLOR NG	DISCHARGE INK	POLYTHANE
Applications									
Cotton T-shirts	x	x	x	x	x	x	x	x	
Synthetic textiles	x	x	x	x	x	x	x		x
Working cloths									x

p.31
- Collection Créative CRÉA

p. 38
- Textile transfer
- Glitter printing

p. 68 - Cleaning solvent
p. 69 - Solvent



Information displayed in our catalogue are based on our current knowledges and researchs. Therefore these materials have been prepared for information purposes only. Our responsibility can be engaged only if the customer has based his position on the information published on our Web-site.
In all cases, the user should carry out validation tests under his own conditions before launching our inks in printing his production.
The safety data sheets are available free at: www.tiflex.com/fds or dial our number (0) +33 4 74 37 33 80/97 to receive necessary and updated information.

FLASHCOLOR range - Plastisol based ink (fast flash drying). Suitable for direct printing and transfer printing on cotton, polyester and blends.

This range contains a wide selection of shades and special effects.

Specifications

- | | |
|-----------------------|-----------------------------|
| ➤ Composition: | heavy metal salts free |
| ➤ Surface aspect: | satin to shiny finish |
| ➤ Touch: | soft |
| ➤ Surface yield: | with mesh 62th.cm: 25 sqm/L |
| ➤ Washing resistance: | very good at 40°C |
| ➤ Ironing: | on the reverse side |
| ➤ Cleaning solvents: | 2881, 2891, 2899 and NS-91 |
| ➤ Shelf life: | 2 years |

Use

Meshes:

Mesh 36 th.cm to screen print liquid adhesives (transfer printing).

Mesh 62 th.cm to screen print white underlayers

From mesh 43 th.cm to mesh 90 th.cm to screen print colors and top whites

From mesh 90 th.cm to mesh 120 th.cm to screen print CMYK shades.

Screen printing:

Manual , half automatic, full automatic

Squeegee triple layers (60/90/60). Squeegee angle : 45 – 60°C.

Pallet adhesives: Aerofix S (ref. 25D1815), Tacker 1 (ref. 25D1720), pallet adhesive for pneumatic pistol gun (ref. 25D3910), water based pallet adhesive applied with roll foam code 0380 (ref. 3344078).

Diluents Plasticizer:

Fast flash additive 7158 (ref. 3194020) will reduce the flash cure time and to avoid the rough touch of the print.

Plasticizer diluent XD835 (ref. 3194040) will help to reduce fast drying time of the ink in the mesh. It will be used in case of hot temperature inside the screen-printing shop.

Gelling agent (ref. 3952061): this additive has been formulated to thicken the ink when it requires to increase the layer of ink or to get special effects. In order to increase lightly the viscosity of the ink, add from 0,2% to 1%, For high density prints, add max 2% in the ink.

Catalyst XD150 (ref. 3982099): by adding 5% catalyst you may decrease the parameters of the dryer either the time or the temperature.

Textile Adhesion agent (ref. 472090): by adding 3% in the ink you may increase the adhesion treated substrates.

For more details, please see the technical data sheet on our web site: www.tiflex.com



Storage and toxicology

The **FLASHCOLOR** inks comply with EN 71-3 standard.

TIFLEX would like to draw your attention to the following points:

Before starting production, you are recommended to check the ink compatibility and resistance on a textile by washing the finished article according to the conditions indicated on its label. Washing resistance may be reduced with some dyes rich in bases or white (transparent or pastel colours).

The washing resistance may also be reduced due to fibrillation (fibres projecting through the printing). This phenomenon is independent of the ink polymerisation. XD 150 catalyst will be used either to ensure complete polymerisation of a thick layer or when using a fabric with poor temperature resistance. High washing temperatures associated with powerful detergents may lead to colour changes with some colours including gold and silver.

STANDARD COLOURS	Density by kg	Ref. 1 l	Euro 1 x 1 l	Equivalent in kg	Ref. 5 l	Euro 1 x 5 l	Equivalent in l	Equivalent in kg
White*	1,60	3962012	31,00	19,38	3964012	77,40	15,48	9,68
Flash cure white	1,60	3962010	32,50	20,31	3964010	81,10	16,22	10,14
Lemon yellow*	1,21	3962015	54,50	45,04	3964015	136,30	27,26	22,53
Medium yellow	1,18	3962016	45,50	38,56	3964016	113,70	22,74	19,27
Gold yellow*	1,18	3962018	38,80	32,88	3964018	97,00	19,40	16,44
Orange*	1,20	3962019	38,80	32,33	3964019	97,00	19,40	16,17
Solid red*	1,13	3962009	50,90	45,04	3964009	127,30	25,46	22,53
Rubis red	1,12	3962027	52,70	47,05	3964027	131,80	26,36	23,54
Fuchsia*	1,18	3962032	67,30	57,03	3964032	168,10	33,62	28,49
Violet*	1,21	3962039	55,80	46,12	3964039	139,40	27,88	23,04
Royal blue	1,16	3962041	32,70	28,19	3964041	81,80	16,36	14,10
Ultramarine blue	1,16	3962044	32,70	28,19	3964044	81,80	16,36	14,10
Mid blue	1,35	3962046	37,60	27,85	3964046	94,00	18,80	13,93
Primary blue*	1,19	3962048	34,60	29,08	3964048	86,50	17,30	14,54
Reflex blue	1,17	3962025	30,30	25,90	3964025	75,80	15,16	12,96
Deep blue	1,22	3962050	39,40	32,30	3964050	98,50	19,70	16,15
Steel blue	1,16	3962054	41,20	35,52	3964054	103,10	20,62	17,78
Bright green	1,19	3962060	35,20	29,58	3964060	88,00	17,60	14,79
Medium green	1,19	3962062	37,60	31,60	3964062	94,00	18,80	15,80
Green	1,20	3962064	37,60	31,33	3964064	94,00	18,80	15,67
Mint green*	1,20	3962066	37,60	31,33	3964066	94,00	18,80	15,67
Emerald green	1,23	3962068	41,90	34,07	3964068	104,60	20,92	17,01
Caramel	1,22	3962073	49,00	40,16	3964073	122,60	24,52	20,10
Black*	1,16	3962034	22,70	19,57	3964034	56,90	11,38	9,81
OPAQUE								
High opacity white	1,50				3964078	81,60	16,32	10,88
High opacity mat white	1,50				3964077	87,70	17,54	11,69
Opacity yellow	1,40				3964002	237,80	47,56	33,97
Opacity red	1,40				3964008	237,80	47,56	33,97
THIXO 4-COLOURS PROCESS								
Thixo 4-colours yellow	1,26	3962080	29,70	23,57	3964080	74,20	14,84	11,78
Thixo 4-colours magenta	1,26	3962081	39,20	31,11	3964081	98,00	19,60	15,56
Thixo 4-colours cyan	1,27	3962082	29,70	23,39	3964082	74,20	14,84	11,69
Thixo 4-colours black	1,25	3962083	29,70	23,76	3964083	74,20	14,84	11,87
FLUO								
Fluo yellow	1,11	3962085	73,90	66,58	3964085	184,70	36,94	33,28
Fluo orange	1,14	3962086	73,90	64,82	3964086	184,70	36,94	32,40
Fluo red	1,14	3962087	73,90	64,82	3964087	184,70	36,94	32,40
Fluo pink	1,15	3962088	73,90	64,26	3964088	184,70	36,94	32,12
Fluo green	1,22	3962089	73,90	60,57	3964089	184,70	36,94	30,28
METALLIC AND SPECIAL EFFECT								
Shiny silver	1,17	3962090	51,60	44,10	3964090	128,80	25,76	22,02
Sparkle silver	1,14	3962091	69,40	60,88	3964091	173,40	34,68	30,42
Gold	1,36	3962095	76,30	56,10	3964095	190,70	38,14	28,04
Sparkle gold	1,10	3962094	69,40	63,09	3964094	173,40	34,68	31,53
Shiny gold	1,40	3962093	102,50	73,21	3964093	256,10	51,22	36,59
Luminescent	1,43	3962096	150,00	104,90	3964096	375,00	75,00	52,45
Silver reflective	1,22	3962098	90,80	74,43	3964098	226,90	45,38	37,20
ADDITIONAL PRODUCTS								
Thinner base*	1,15	3962005	23,10	20,09	3964005	57,70	11,54	10,03
Thinner base soft	1,14	3962006	22,70	19,91	3964006	56,90	11,38	9,98
Pearl base	1,21	3962007	55,30	45,70	3964007	138,30	27,66	22,86
Puff agent plastisol	1,07	3952090	58,10	54,30	3954090	145,30	29,06	27,16
Glitter base	1,15				3954096	72,40	14,48	12,59
Sparkle glue	1,12				3954099	103,40	20,68	18,46
Puff transfer base	1,10				3954095	136,50	27,30	24,82
Glossy elastic base	1,17				3954091	98,80	19,76	16,89
COMPLEMENTARY PRODUCTS								
Catalyst XD 150, 250 g		3981299	13,50					
Catalyst XD 150, per kg		3982099	31,40					
Gelling agent, per kg		3952061	58,60					



EVEREST

EVEREST range - **PHthalate FREE** flexible plastisol based ink (fast flash drying). Suitable for direct printing and transfer printing on cotton, polyester and blends

The Everest serie is certified Oekotex 100 Classe 1 CQ 1025/1 (see certificate page 29).



Specifications

- Composition: **PHthalate FREE**
heavy metal salts free
azoic dyes free
- Surface aspect: satin to shiny finish
- Touch: soft
- Surface yield: with mesh 62th.cm: 25 sqm/L
- Washing resistance: very good at 40°C
- Ironing: on the reverse side
- Cleaning solvents: 2881, 2891, 2899 and NS-91
- Shelf life: 2 years

Use

Meshes:

Mesh 36 th.cm to screen print liquid adhesives (transfer printing) and low bleed underlayer

Mesh 62 th.cm to screen print white under-layers

From mesh 43 th.cm to mesh 90 th.cm to screen print colours and top whites

From mesh 90 th.cm to mesh 120 th.cm to screen print CMYK shades.

Screen printing:

Manual, half automatic, full automatic

3C PU Squeegee (60/90/60). Squeegee angle : 45 – 60°C

Pallet adhesives: Aerofix S (ref. 25D1815), Tacker 1 (ref. 25D1720), pallet adhesive for pneumatic pistol gun (ref. 25D3910), water based pallet adhesive applied with roll foam code 0380 (ref. 3344078)

Diluents Plasticizers:

Everest fast flash additive 7158 (ref. 3194020) will reduce the flash cure time and to avoid the rough touch of the print.

Everest thinner (ref. 3194024) will reduce the viscosity of the Everest ink. This thinner can also be added to limit a fast drying.

Before adding this additive, the ink must be stirred.

Gelling agent (ref. 3952061): this additive has been formulated to thicken the ink when it requires to increase the layer of ink or to get special effects. In order to increase lightly the viscosity of the ink, add from 0,2% to 1%, For high density prints, add max 2% in the ink.

Catalyst XD150 (ref. 3982099): by adding 5% catalyst you may decrease the parameters of the dryer either the time or the temperature.

Textile Adhesion agent (ref. 472090): by adding 3% in the ink you may increase the adhesion treated substrates.

For more details, please see the technical data sheet on our web site: www.tiflex.com

Storage and toxicology

The **EVEREST** inks comply with the norm EN 71-3 and can be printed on Oekotex 100 Class 1 babies clothes.

PHthalate FREE

STANDARD COLOURS	Density by kg	Ref. 11	Euro 1x11	Equivalence in kg	Ref. 51	Euro 1 x 51	Equivalence in l	Equivalence in kg
White*	1,60	39C2000	33,80	21,13	39C4000	84,50	16,90	10,56
Kilimandjaro white	1,56				39S4010	81,10	16,22	10,40
Antibleeding white	1,60	39C2095	38,70	24,19	39C4095	96,80	19,36	12,10
Colorcatcher white	1,51				39C4087	100,50	20,10	13,31
Antibleeding gray	1,49				39C4043	162,20	32,44	21,77
Polar white	1,58	39C2089	34,00	21,52	39C4089	85,10	17,02	10,77
Flash cure white	1,56	39C2086	34,50	22,12	39C4086	86,10	17,22	11,04
Lemon yellow*	1,22	39C2002	57,80	47,38	39C4002	144,40	28,88	23,67
Medium yellow	1,18	39C2003	48,40	41,02	39C4003	121,00	24,20	20,51
Gold yellow*	1,17	39C2004	41,80	35,73	39C4004	104,40	20,88	17,85
Orange	1,21	39C2006	41,80	34,55	39C4006	104,40	20,88	17,26
Solid red*	1,14	39C2013	54,00	47,37	39C4013	134,90	26,98	23,67
Rubis red	1,14	39C2012	55,70	48,86	39C4012	139,20	27,84	24,42
Fuchsia*	1,18	39C2015	70,40	59,66	39C4015	176,00	35,20	29,83
Violet*	1,17	39C2016	58,80	50,26	39C4016	147,00	29,40	25,13
Royal blue	1,29	39C2024	36,10	27,98	39C4024	90,20	18,04	13,98
Mid blue	1,36	39C2021	40,40	29,71	39C4021	100,90	20,18	14,84
Primary blue*	1,19	39C2020	37,50	31,51	39C4020	93,80	18,76	15,76
Reflex blue	1,21	39C2025	33,30	27,52	39C4025	83,20	16,64	13,75
Deep blue	1,23	39C2026	42,50	34,55	39C4026	106,20	21,24	17,27
Green	1,20	39C2031	42,20	35,17	39C4031	105,50	21,10	17,58
Mint green*	1,20	39C2035	40,60	33,83	39C4035	101,50	20,30	16,92
Emerald green	1,26	39C2033	44,90	35,63	39C4033	112,30	22,46	17,83
Black*	1,20	39C2044	26,10	21,75	39C4044	65,30	13,06	10,88

4-COLOURS PROCESS

4-colours yellow	1,26	39C2050	32,40	25,71	39C4050	80,90	16,18	12,84
4-colours magenta	1,25	39C2052	32,40	25,92	39C4052	80,90	16,18	12,94
4-colours cyan	1,26	39C2054	32,40	25,71	39C4054	80,90	16,18	12,84
4-colours black	1,26	39C2056	32,40	25,71	39C4056	80,90	16,18	12,84

BASES

Thinner base*	1,13	39C2066	26,90	23,81	39C4066	67,40	13,48	11,93
Shiny elastic base	1,17	39C2092	40,60	34,70	39C4092	101,40	20,28	17,33
Extensible base	1,05				39C4097	114,20	22,84	21,75

SPECIAL EFFECT

Sparkle silver	1,21	39C2091	71,50	59,09	39C4091	178,80	35,76	29,55
Sparkle gold	1,18	39C2094	71,50	60,59	39C4094	178,80	35,76	30,31
Disco varnish	1,08				39C4058	131,30	26,26	24,31

ADHESIVES

White adhesive, 5 l	1,45				39C4098	121,70	24,34	16,79
Transparent adhesive, 5 l	1,11				39C4099	116,60	23,32	21,01
Powder adhesive, 3 kg					3863327	127,30		

TIFLEX would like to draw you attention to the following points:

Before starting production, you are recommended to check the ink compatibility and resistance on a textile by washing the finished article according to the conditions indicated on its label.

Washing resistance may be reduced with some dyes rich in bases or white (transparent or pastel colours).

The washing resistance may also be reduced due to fibrillation (fibres projecting through the printing). This phenomenon is independent of the ink polymerisation.

High washing temperatures associated with powerful detergents may lead to colour changes with some colours including gold and silver.

CERTIFICATE



Institut Français Textile
Habillement
Avenue Guy de Collongue
69134 ECULLY CEDEX
FRANCE

Membre de l'Association
Internationale pour la
Recherche et les Tests dans
le domaine de l'Ecologie
Textile (Oeko-Tex®)

The company

TIFLEX

**10 avenue de la Première Armée Française
Rhin et Danube BP.3**

01450 PONCIN, FRANCE

is granted authorization according to Oeko-Tex® Standard 100 to use the Oeko-Tex® mark, based on our **test report 13-03032, 13-03693**



Tested for harmful substances
according to Oeko-Tex® Standard 100

CQ 1025/1

IFTH

for the following articles:

Silked-screen white T-shirts in 100% cotton (direct printing or by transfert) with plastisol inks EVEREST Tiflex and DREAMFLASH Tiflex.

The results of the inspection made according to Oeko-Tex® Standard 100, **product class I** have shown that the above mentioned goods meet the human-ecological requirements of the standard presently established for baby articles.

The certified articles fulfil the requirements of Annex XVII of REACH (incl. the use of azo-dyes, nickel, etc.) as well as the American requirement regarding total content of lead in children's articles (CPSIA; with the exception of accessories made from glass).

The holder of the certificate, who has issued a conformity declaration according to ISO 17050-1, is under an obligation to use the Oeko-Tex® mark only in conjunction with products that conform with the sample initially tested. The conformity is verified by audits.

This authorisation is valid until 31.08.2014

Lyon, 22.10.2013



Bruno CHEVET
Head of operations

For several years now, together with the evolution of the fabrics, textile production have changed. The way to color the fabric may be problematic either by classic dying operations or by sublimation. Therefore printing with classic plastisol based ink will not allow getting a fair result.

The new HIMALAYA plastisol serie is suitable for direct and transfer printing curable at 140°C (no catalyst required). It will be dedicated to print on cotton, polyester, blends, nylon as well as on fragile fabrics for which a standard plastisol based ink curable at high temperature (around 160°C) will not be suitable.

Specifications

- Composition: **PHTHALATE FREE**,
HEAVY metal salts free
azoic dyes free
- Appearance: satin
- Touch: soft
- Surface yield: mesh 62th.cm: 25 m²/l
- Washing resistance: very good
- Ironing: on the reverse side
- Cleaning: 2881, 2891, 2899 and NS91
- Shelf life: 2 years
- Tests performed at 40°C, 60°C and 90°C
Results available on request

Use

Meshes:

Mesh 36 th.cm to screen print liquid adhesives (transfer printing) and low bleed underlayer.

Mesh 62 th.cm to screen print white under-layers.

From mesh 43 th.cm to mesh 90 th.cm to screen print colours and top whites.

From mesh 90 th.cm to mesh 120 th.cm to screen print CMYK shades.

Screen printing:

Manual, half automatic, full automatic.

Squeegee polyurethane 3C green (ref. 245604).

Squeegee angle: 45 - 60°C.

Pallet adhesives: Aerofix S (ref. 25D1815), Tacker 1 (ref. 25D1720), pallet adhesive for pneumatic pistol gun (ref. 25D3910), water based pallet adhesive applied with roll foam code 0380 (ref. 3344078).

Fast flash additive Himalaya (ref. 3194030) will reduce the flash cure time and to avoid the rough touch of the print.

Thinner Himalaya (ref. 3194034) will reduce the viscosity of the Himalaya ink. This thinner can also be added to limit a fast drying.

Before adding this additive, the ink must be stirred.

Gelling agent (ref. 3952061): this additive has been formulated to thicken the ink when it requires to increase the layer of ink or to get special effects. In order to increase lightly the viscosity of the ink, add from 0,2 to 1%. For high density prints, add max 2% in the ink.

Catalyst XD150 (ref. 3982099): by adding 5% catalyst you may decrease the parameters of the dryer either the time or the temperature.

Textile Adhesion agent (ref. 3472090): by adding 3% in the ink you may increase the adhesion treated substrates.

For more details, please see the technical data sheet on our web site: www.tiflex.com

Storage and toxicology

The **Himalaya** serie is formulated PHTHALATE FREE, HEAVY METAL SALTS FREE and AZOIC DYES FREE and complies with the norm EN 71-3 (Oekotex 100 Class 1 certified fabrics on request).

PHTHALATE FREE

TIFLEX would like to draw you attention to the following points:

Before starting production, you are recommended to check the ink compatibility and resistance on a textile by washing the finished article according to the conditions indicated on its label. Washing resistance may be reduced with some dyes rich in bases or white (transparent or pastel colours).

The washing resistance may also be reduced due to fibrillation (fibres projecting through the printing). This phenomenon is independent of the ink polymerisation.

High washing temperatures associated with powerful detergents may lead to colour changes with some colours including gold and silver.

STANDARD COLOURS	Density by kg	Ref. 1 l	Euro 1 x 1 l	Equivalent in kg	Ref. 5 l	Euro 1 x 5 l	Equivalent in l	Equivalent du kg
White*	1,60	39H2000	34,60	21,63	39H4000	86,50	17,30	10,81
Flash cure white	1,60	39H2086	35,30	22,06	39H4086	88,20	17,64	11,03
High opacity white	1,62	39H2078	36,60	22,59	39H4078	91,50	18,30	11,30
Antibleeding white	1,58	39H2095	38,75	24,53	39H4095	96,85	19,37	12,26
Colorcatcher white	1,51	39H2087	41,40	27,42	39H4087	103,50	20,70	13,71
Antibleeding gray	1,52	39H2043	66,40	43,68	39H4043	166,00	33,20	21,84
Lemon yellow*	1,36	39H2002	59,00	43,38	39H4002	146,40	29,28	21,53
Medium yellow	1,34	39H2003	49,40	36,87	39H4003	123,50	24,70	18,43
Gold yellow*	1,25	39H2004	43,00	34,40	39H4004	107,50	21,50	17,20
Orange	1,27	39H2006	42,80	33,70	39H4006	107,00	21,40	16,85
Solid red*	1,25	39H2013	54,80	43,84	39H4013	137,00	27,40	21,92
Rubis red	1,25	39H2012	56,60	45,28	39H4012	141,45	28,29	22,63
Fuchsia*	1,21	39H2015	70,80	58,51	39H4015	177,00	35,40	29,26
Violet*	1,20	39H2016	60,80	50,67	39H4016	152,00	30,40	25,33
Royal blue	1,29	39H2024	37,40	28,99	39H4024	93,50	18,70	14,50
Mid blue	1,34	39H2021	41,60	31,04	39H4021	104,00	20,80	15,52
Primary blue*	1,21	39H2020	39,20	32,40	39H4020	98,00	19,60	16,20
Reflex blue	1,27	39H2025	34,65	27,28	39H4025	86,60	17,32	13,64
Deep blue	1,22	39H2026	43,65	35,78	39H4026	109,10	21,82	17,89
Green	1,32	39H2031	43,40	32,88	39H4031	108,50	21,70	16,44
Mint green*	1,29	39H2035	41,60	32,25	39H4035	104,00	20,80	16,12
Emerald green	1,32	39H2033	46,05	34,89	39H4033	115,10	23,02	17,44
Black*	1,17	39H2044	27,60	23,59	39H4044	69,00	13,80	11,79

4-COLOURS PROCESS

4-colours yellow	1,26	39H2050	34,00	26,98	39H4050	85,00	17,00	13,49
4-colours magenta	1,25	39H2052	34,00	27,20	39H4052	85,00	17,00	13,60
4-colours cyan	1,23	39H2054	34,00	27,64	39H4054	85,00	17,00	13,82
4-colours black	1,23	39H2056	34,00	27,64	39H4056	85,00	17,00	13,82

BASES

Thinner base*	1,02	39H2066	28,40	27,84	39H4066	71,00	14,20	13,92
Thinner base soft	1,08				39H4068	72,00	14,40	13,33
Elastic base	1,09				39H4092	104,30	20,86	19,14
Extensible base	1,05				39C4097	112,00	22,40	21,33

SPECIAL EFFECT

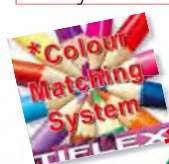
Sparkle silver	1,18	39H2091	74,00	62,71	39H4091	185,00	37,00	31,36
Sparkle gold	1,22	39H2094	74,00	60,66	39H4094	185,00	37,00	30,33

ADHESIVES

white adhesive	1,42	39H2098	49,75	35,04	39H4098	124,35	24,87	17,51
Transparent adhesive, 5 l	1,12				39H4099	119,00	23,80	21,25
Powder adhesive, 3 kg					3863327	124,85		

ADDITIVES

Gelling agent, per kg		3952061	58,60					
Adhesion agent, 1 l		3472090	138,60					
Catalyst XD 150, per kg		3982099	31,40					



NEW**CREATIVE COLLECTION****LOW TEMPERATURE**

The following inks displayed in the « Creative serie » are **phthalate free** and can be cured at **low temperature** (140°C)

Special effects can be created as a single base or in association with the HIMALAYA inks.

The CREATIVE inks can be mixed with HIMALAYA serie inks such as Sparkled gold (ref. 39H4094), Sparkled silver (ref. 39H4091), Shiny elastic ink (ref. 39H4092), stretchable ink (ref. 39C4097), soft base (ref. 39H4068), printable adhesive (ref. 3864042) from the HIMALAYA serie.



Glitter varnish CREA

Specifications

- Composition: **PHthalate FREE**, heavy metal salts free, azoic dyes free
- Surface yield: mesh 62th.cm: 25 m²/l
mesh 21th.cm: 55 m²/l
- Washing resistance: very good. **Add 5% of hardener XD150 (ref. 3981299) inside the ink "Reflective" (ref. 39L4049) and "Shiny silver" (ref. 39L4091)**
- Ironing: on the reverse side
- Cleaning: 2881, 2891, 2899 and NS91
- Shelf life: 1 - 2 years (according to the ref)

Use

Meshes:

From 62 th.cm to 120 th.cm to print the disco varnish CREATIVE (ref. 39L4045).

From 62 th.cm to 90 th.cm to print the Soft base CREATIVE (ref. 39L4005).

62 th.cm to print the chalk effect CREATIVE (ref. 39L4090).

From 48 th.cm to 62 th.cm to print the neon colors and shiny silver CREATIVE (ref. 39L4091).

From 21 th.cm to 62 th.cm to print the Puff base CREATIVE (ref. 39L4006) and the transfer puff base (ref. 39L4007).

From 21 th.cm to 36 th.cm to print the Pearl varnish CREATIVE (ref. 39L4041), the Sparkled varnish CREATIVE (ref. 39L4043), the Metal gold CREATIVE (ref. 39L4094).

21 th.cm to print the Reflective CREATIVE (ref. 39L4049).

Screen printing:

Manual, half automatic, full automatic.

Pallet adhesives: Aerofix S, Tacker 1, pallet adhesive for pneumatic pistol gun (ref. 25D3910), water based pallet adhesive applied with roll foam code 0380 (ref. 3344078).

Diluents Plasticizer:

Fast flash additive Himalaya (ref. 3194030) will reduce the flash cure time and to avoid the rough touch of the print.

Thinner Himalaya (ref. 3194034) will reduce the viscosity of the CREATIVE inks. This thinner can also be added to limit a fast drying. Before adding this additive, the ink must be stirred.

Gelling agent (ref. 3952061): this additive has been formulated to thicken the ink when it requires to increase the layer of ink or to get special effects. In order to increase lightly the viscosity of the ink, add from 0,2 to 1%. For high density prints, add max 2% in the ink.

Catalyst XD150 (ref. 3982099): by adding 5% catalyst you may decrease the parameters of the dryer either the time or the temperature.

Textile Adhesion agent (ref. 472090): by adding 3% in the ink you may increase the adhesion treated substrates.

The shiny silver (ref. 39L4091) can be transferred on textile.

In case of mixing the Himalaya inks and CREATIVE inks, we The compliance with the OEKOTEX Standards should be checked in case of mixing the HIMALAYA inks with the inks from the CREATIVE SERIE.

For more details, please see the technical data sheet on our web site: www.tiflex.com

Storage and toxicology

The **CREATIVE** serie is formulated **PHthalate FREE**, **HEAVY METAL SALTS FREE** and **AZOIC DYES FREE**.

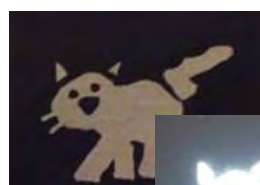
TIFLEX would like to draw you attention to the following points:

Before starting production, you are recommended to check the ink compatibility and resistance on a textile by washing the finished article according to the conditions indicated on its label. Washing resistance may be reduced with some dyes rich in bases or white (transparent or pastel colours).

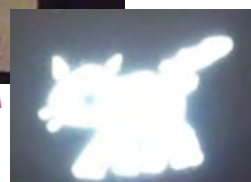
The washing resistance may also be reduced due to fibrillation (fibres projecting through the printing). This phenomenon is independent of the ink polymerisation.

High washing temperatures associated with powerful detergents may lead to colour changes with some colours including gold and silver.

COLOURS	Density by kg	Ref. 5 l	Euro 1 x 5 l	Equivalent in l	Equivalence du kg
FLUO					
Yellow	1,14	39L4085	193,50	38,70	33,95
Orange	1,14	39L4086	193,50	38,70	33,95
Red	1,14	39L4087	193,50	38,70	33,95
Pink	1,14	39L4088	193,50	38,70	33,95
Green	1,15	39L4089	193,50	38,70	33,65
BASES					
Soft base	1,10	39L4005	67,70	13,54	12,31
Puff base	1,05	39L4006	152,00	30,40	28,95
Transfer puff base	1,06	39L4007	165,00	33,00	31,13
VARNISH EFFECT					
Pearl varnish	1,16	39L4041	162,00	32,40	27,93
Sparkled varnish	1,09	39L4043	192,00	38,40	35,23
Disco varnish	1,09	39L4045	132,00	26,40	24,22
SPECIAL EFFECT					
Metal gold	1,31	39L4094	170,00	34,00	25,95
Metal silver	1,20	39L4091	170,00	34,00	28,33
Luminescent	1,43	39L4047	375,00	75,00	52,45
Reflective	1,70	39L4049	735,00	147,00	86,47
Chalk effect	1,20	39L4090	283,00	56,60	47,17



Reflecto CREA Daylight



Reflecto CREA Headlights



Chalk effect CREA

PHthalate FREE

DREAMFLASH

DREAMFLASH range – PVC FREE AND PHTHALATE FREE flexible plastisol based ink (fast flash curing). Suitable for direct printing and transfer printing on cotton, polyester and blends.

The DREAMFLASH serie is certified Oekotex 100 Classe 1 CQ 1025/1 and chemical inputs GOTS V4.

LOW TEMPERATURE

Specifications

- Composition: **PHTHALATE FREE, PVC FREE**
heavy metal salts free
azoic dyes free
- Surface aspect: satin
- Touch: soft
- Surface yield: with mesh 62th.cm: 25 sqm/L
- Washing resistance: very good at 40°C
- Ironing: on the reverse side
- Cleaning solvents: 2881, 2891, 2899 and NS-91
- Shelf life: 2 years

Use

Meshes:

Mesh 36 th.cm to screen print liquid adhesives (transfer printing) and low bleed underlayer

Mesh 62 th.cm to screen print white under-layers

From mesh 43 th.cm to mesh 90 th.cm to screen print colours and top whites

From mesh 90 th.cm to mesh 120 th.cm to screen print CMYK shades.

Screen printing:

Manual , half automatic, full automatic

3C PU Squeegee (60/90/60). Squeegee angles : 45 – 60°C

Pallet adhesives: Aerofix S (ref. 25D1815), Tacker 1 (ref. 25D1720), pallet adhesive for pneumatic pistol gun (ref. 25D3910), water based pallet adhesive applied with roll foam code 0380 (ref. 3344078)

Diluents Plasticizers:

Thinner 7158 (ref. 3194020) will reduce the flash cure time and will work as a thinner.

Gelling agent (ref. 3952061): this additive has been formulated to thicken the ink when it requires to increase the layer of ink or to get special effects. In order to increase lightly the viscosity of the ink, add from 0,2% to 1%, For high density prints, add max 2% in the ink.

For more details, please see the technical data sheet on our web site: www.tiflex.com

Storage and toxicology

The **DREAMFLASH** inks comply with the norm EN 71-3 and can be printed on Oekotex 100 Class 1 babies clothes (Oekotex 100 Class 1 certified fabrics on request).

PHTHALATE FREE
PVC FREE



STANDARD COLOURS	Density by kg	Ref. 5 l	Euro 1 x 5 l	Equivalent in l	Equivalence du kg
White*	1,35	39A4000	117,60	23,52	17,42
Flash cure white	1,39	39A4086	124,90	24,98	17,97
High opacity white	1,40	39A4080	124,40	24,88	17,77
Lemon yellow*	1,24	39A4002	179,50	35,90	28,95
Gold yellow*	1,19	39A4004	128,80	25,76	21,65
Orange*	1,16	39A4006	129,90	25,98	22,40
Solid red*	1,24	39A4013	162,20	32,44	26,16
Rubis red	1,12	39A4012	144,90	28,98	25,88
Fuchsia*	1,18	39A4015	168,90	33,78	28,63
Violet*	1,25	39A4016	163,30	32,66	26,13
Primary blue*	1,21	39A4020	125,40	25,08	20,73
Mint green*	1,30	39A4035	124,30	24,86	19,12
Black*	1,17	39A4044	112,60	22,52	19,25
4-COLOURS PROCESS					
4-colours yellow	1,20	39A4050	129,30	25,86	21,55
4-colours magenta	1,19	39A4052	129,30	25,86	21,73
4-colours cyan	1,20	39A4054	129,30	25,86	21,55
4-colours black	1,21	39A4056	129,30	25,86	21,37
BASE					
Thinner base*	1,05	39A4058	116,50	23,30	22,19
SPECIAL EFFECTS					
Sparkle silver	1,06	39A4091	191,50	38,30	36,13
Sparkle gold	1,10	39A4094	191,50	38,30	34,82
ADHESIVE					
PET Powder adhesive, 3 kg		3863327	127,30		

Norme GOTS
Intrants Chimiques



TIFLEX would like to draw your attention to the following points:

Before starting production, you are recommended to check the ink compatibility and resistance on a textile by washing the finished article according to the conditions indicated on its label.

Washing resistance may be reduced with some dyes rich in bases or white (transparent or pastel colours).

The washing resistance may also be reduced due to fibrillation (fibres projecting through the printing). This phenomenon is independent of ink polymerisation.

High washing temperatures associated with powerful detergents may lead to colour changes with some colours.

Water-based polyurethane ink for printing directly on textiles. It yields flexible and elastic prints. Used with a hardener, it can dry below 100 °C and limit the drawing of the printed fabrics.

Specifications

- Finish: satin
- Odour: very few
- Average density: 1.25
- Rheology: thixotropic ink
- Polymerisation:
 - 2 min at 160 °C in IR tunnel, value to be adjusted according to the material used (test the printing according to the wash programme recommended); to avoid drawing of the dyes or the fabric, it is possible to add low-temperature hardeners that work under the following conditions:
 - with hardener (ref. 3540560) at 2%, 2 min at 90 °C in IR tunnel, value to be adjusted according to the material used (test the printing according to the wash programme recommended)
 - for drying at room temperature, hardener (ref. 3540561) must be mixed at up to 2 % (wait 8 to 15 days before washing to test the printing)
- Cleaning solvents: water
- Covering power: good
- Surface yield: 20 m²/l with 36 - 70 fabric
- Washing resistance: correctly fixed, resists domestic washing: 30 to 50 °C cycles on the reverse
- Ironing: on the reverse
- Retarding diluent: 3X9394
- Shelf life: 12 months
- Storage conditions: between 0 °C and 35 °C
- Colours miscible together: yes



Use

Screens will be coated with emulsions resisting to cleaning solvents. The fabric mesh is chosen according to the work to be carried out. To achieve maximum opacity, we recommend you to use size of mesh from 36 and 70 fibres/cm. For multiple printing, we recommend you to flash between each colour.

The last layer has to be dried in an IR tunnel during 2 minutes at 160°C. In case of ink blending combined with low temperature hardener to avoid pigments migration, drying conditions will consequently be 100°C for 2 mn.

IMPLEMENTATION

Preparation is required before using this range of inks. The pigmented concentrates are used with the thinner base on its own or with the thinner base and the blending white.

PREPARATION

- Red resist, ruby red and black, 90% thinner base, 10% pigmented concentrate.
- Lemon, thinner base 37,5%, blending white 60%, 2,5% pigmented concentrate.
- Other colours, 20% base, 60% white, 20% pigment concentrate.
- Gold paste 20 %, base 80 %.
- Silver paste 13 %, base 87 %.

Storage and toxicology

The **AQUADIR** inks comply with EN 71-3 standard.

* ref. 3540561 : Acute inhalation toxicity, Category 4 ; Skin sensitisation, Category 1 ; Specific target organ toxicity (single exposure), Category 3 ; Hazardous to the aquatic environment - Chronic hazard, Category 3

STANDARD COLOURS	Density by kg	Ref. 1 l	Euro 1 x 1 l	Equivalent in kg
PIGMENT CONCENTRATES				
Lemon	1,17	3522002	70,60	60,34
Yellow	1,20	3522004	70,60	58,83
Orange	1,16	3522006	70,60	60,86
Cherry red	1,18	3522008	91,70	77,71
Rubis red	1,10	3522012	70,60	64,18
Fuchsia	1,10	3522015	105,80	96,18
Violet	1,00	3522016	70,60	70,60
Primary blue	1,00	3522020	70,60	70,60
Mint green	1,50	3522035	70,60	47,07
Black	1,30	3522044	70,60	54,31

STANDARD COLOURS	Density by kg	Ref. 5 l	Euro 1 x 5 l	Equivalent in l	Equivalent in kg
Thinner white	1,12	3544000	109,60	21,92	19,57
Covering white	1,36	3544087	109,60	21,92	16,12
BASE					
Thinner base	1,06	3544066	109,60	21,92	20,68

SPECIAL EFFECT	Ref. 1 kg	Euro 1 x 1kg
METALLIC		
Sylver paste	3542046	155,50
Gold paste	3562096	56,50

ADDITIVES	Ref.	Euro
Room temperature hardener, per 100 g*	3540561	9,60
Low temperature hardener, per 100 g	3540560	9,60

TIFLEX would like to draw your attention to the following points:

Before starting production, you are recommended to check ink compatibility and resistance on a textile by washing the finished article according to the conditions indicated on its label.

Washing resistance may be reduced with some dyes rich in base colours or white (transparent or pastel colours) or a too important incorporation of pigment concentrates. The washing resistance may also be reduced due to fibrillation (fibres projecting through the printing). This phenomenon is independent of ink polymerisation.

High washing temperatures associated with powerful detergents may lead to colour changes with some colours.

AQUATRANS

Water-based polyurethane ink (mono component) for transfer printing. Good flexibility, high elasticity.

Specifications

- Appearance: satin
- Smell: very few
- Average density: 1.25
- Rheology: thixotropic ink
- Cleaning product: water
- Covering power: good
- Coverage rate: approx. 20 m²/l with a 49- 70 mesh
- Washing resistance: good
- Elasticity: excellent
- Ironing: on the reverse
- Diluent retarder: 3X9394
- Diluent thickener: 3Y1598
- Expiry date: 12 months
- Storage conditions: between 0° and 35°C
- colours miscible together: yes



Use

- 1) Printing on polyester film for mat transfer (**2543600**) or siliconed paper 2543300 (*by 250 sheets, size 70 x 50 cm) and (**2543600**) (by 250 sheets, size 70 x 100 cm).
- 2) Pre-drying of the dyes: 2 mn at 80°C at pulsed air tunnel
- 3) Printing of the adhesive (mesh 36 threads/cm).
Drying : 2 mn at 50 - 60°C.

or

use a powder adhesive:

- PU (**3863328**), drying 2 mn at 90°C
- PET (**3863327**), drying 2 mn at 105°C

- 4) Transfer on textile with a heating press by respecting the following recommendations:

- Powder PU pressure 3 to 5 bars
- temperature 140 - 150°C
- time 15 to 30 seconds

In that case, we advise you not to wash and dry over 60°C.

- Poudre PET pressure 3 to 5 bars
- temperature 150 - 180°C
- time 20 to 30 seconds

- 5) Take out the transfer substrate only after complete cooling.

Please respect the following points:

Before you start printing pass the transfer paper through the dryer to condition the transfer paper prior to printing.

Polymerization of the ink on the transfer support could lead to problems with adhesion to the fabric.

Preliminary tests must be carried out to check the resistance of the textile to the press and ensure paper to textile transfer.

Adding a big quantity of pigment concentrates (30%) can damage the transfer, particularly if used exposure.

Particular case: in case of drying over 60°C

- special base (**3Y2804**)
- Powder PU (**3Y2911**)
- Covering white (**3524087**) to prepare various shades

IMPLEMENTATION

Preparation is required before using this range of inks.

The pigment concentrates are used with the thinner base on its own or with the thinner base and the blending white.

PREPARATION

- Red resist, ruby red and black, 90% base 10% pigmented concentrate.
- Lemon, thinner base 37,5%, blending white 60%, 2,5% pigmented concentrate.
- Other colours, 20% base, 60% white, 20% pigment concentrates.

STANDARD COLOURS	Density by kg	Ref. 1 l	Euro 1 x 1 l	Equivalent in kg
PIGMENT CONCENTRATES				
Lemon	1,17	3522002	70,60	60,34
Yellow	1,20	3522004	70,60	58,83
Orange	1,16	3522006	70,60	60,86
Cherry red	1,05	3522008	91,70	87,33
Rubis red	1,10	3522012	70,60	64,18
Fuchsia	1,10	3522015	105,80	96,18
Violet	1,00	3522016	70,60	70,60
Primary blue	1,00	3522020	70,60	70,60
Mint green	1,50	3522035	70,60	47,07
Black	1,30	3522044	70,60	54,31

STANDARD COLOURS	Density by kg	Ref. 5 l	Euro 1 x 5 l	Equivalent in l	Equivalent in kg
Thinner white	1,09	3524000	109,60	21,92	20,11
Covering white	1,30	3524087	109,60	21,92	16,86
BASES					
Thinner base	1,03	3524066	109,60	21,92	21,28
Base for metallic paste	1,02	3524095	167,30	33,46	32,80
SPECIAL EFFECT					
Sylver paste, per kg		3542046	155,50		
Gold paste, per kg		3562096	56,50		

ADHESIVES	Density by kg	Ref. 5 l	Euro 1 x 5 l	Equivalent in l	Equivalent in kg
Adhesive*, 5 l	1,05	3864041	112,70	22,54	21,47
Thermofusing powder adhesive polyester, bucket 3 kg		3863327	127,30		
Thermofusing powder adhesive PU, bucket 3 kg		3863328	143,50		

Storage and toxicology

The **AQUATRANS** inks comply with EN 71-3 standard.

TIFLEX would like to draw your attention to the following points:

Before starting production, you are recommended to check the ink compatibility and resistance on a textile by washing the finished article according to the conditions indicated on its label.

Washing resistance may be reduced with some dyes rich in base colours or white (transparent or pastel colours).

The washing resistance may also be reduced due to fibrillation (fibres projecting through the printing). This phenomenon is independent of ink polymerisation.

High washing temperatures associated with powerful detergents may lead to colour changes with some colours.

Specifications

- Appearance: satin
- Smell: very few
- Fixing: - 2 to 3 min. at 160°C in IR tunnel
- by cold catalysis with an addition before printing of 5% of catalyst 35A0564; in this case, the catalyzed ink can only be used for 48 h.
- in case of the user will not be able to cure the covering white in a dryer, we recommend to add 5% of catalyzer (ref. 3540561). Pot life will be 48 hours max.
- Solidity: correctly fixed, **HYDROCOLOR NG** ink resists to domestic washings (cycles for printed fabrics from 30°C to 50°C)
- Coverage rate: varies from 9 to 12 m²/l depending on the screen used and the substrate printed
- Diluent retarder: 3X9394
- Cleaning the equipment: water
- Expiry: refer to the label

Use

HYDROCOLOR NG is printed with a mesh 48 threads/cm and emulsions such as DIAZO T, UST and 200T.

The thixotropy of the ink can be increased according to the following procedure : add while stirring from 10 g to 25 g of thickener XH 690 in 5 liters of ink then progressively add 25 g of a 25% ammoniacal solution in water. Note that the colour **HYDROCOLOR NG Gold** is delivered in two packages:

- base for metallic paste (ref. 3564095) (in 5 l can)
- rich pale gold paste (ref. 3562096) (in 1 kg pot)
The base and the paste must be mixed just before use in proportions of 85/15 by weight. The mixture obtained must be used the same day.
- sylver paste (ref. 3542046) (in 1 kg pot)
The base and the paste must be mixed just before use in proportions of 87/13 by weight. The mixture obtained must be used the same day.

Storage and toxicology

The **HYDROCOLOR NG** inks comply with EN 71-3 standard.



TIFLEX would like to draw your attention to the following points:

Washing resistance may be reduced with some dyes rich in bases or white (transparent or pastel colours).

The washing resistance may also be reduced due to fibrillation (fibres projecting through the printing) with some fabrics. This phenomenon is independent of the ink polymerisation.

Before starting production, you are recommended to check the ink compatibility and resistance on a textile by washing the finished article according to the conditions indicated on its label.

STANDARD COLOURS	Ref. 1 l	Euro 1 x 1 l	Ref. 5 l	Euro 1 x 5 l	Equivalent in l
Thinner white	35A2085	24,50	35A4085	61,40	12,28
Covering white	35A2087	38,30	35A4087	95,60	19,12
Lemon	35A2002	29,50	35A4002	73,70	14,74
Gold yellow	35A2004	24,50	35A4004	61,40	12,28
Orange	35A2006	23,20	35A4006	58,10	11,62
Scarlet	35A2007	31,40	35A4007	78,50	15,70
Red	35A2008	30,20	35A4008	75,40	15,08
Dark red	35A2009	27,70	35A4009	69,10	13,82
Fuchsia	35A2015	38,30	35A4015	95,60	19,12
Violet	35A2016	32,70	35A4016	81,80	16,36
Bright blue	35A2020	23,20	35A4020	58,10	11,62
Royal blue	35A2025	28,30	35A4025	70,60	14,12
Deep blue	35A2026	25,80	35A4026	64,50	12,90
Bright green	35A2030	40,70	35A4030	101,90	20,38
Dark green	35A2034	25,80	35A4034	64,50	12,90
Olive green	35A2035	35,10	35A4035	87,90	17,58
Brown*	35A2042	40,70	35A4042	101,90	20,38
Black	35A2044	39,30	35A4044	98,30	19,66

4-COLOURS PROCESS

4-colours yellow	35A2050	26,40	35A4050	66,00	13,20
4-colours magenta	35A2052	26,40	35A4052	66,00	13,20
4-colours cyan	35A2054	26,40	35A4054	66,00	13,20
4-colours black	35A2056	26,40	35A4056	66,00	13,20

FLUO

Fluo lemon	35A2070	51,10	35A4070	127,70	25,54
Fluo gold yellow*	35A2075	51,10	35A4075	127,70	25,54
Fluo orange*	35A2073	51,10	35A4073	127,70	25,54
Fluo red*	35A2071	51,10	35A4071	127,70	25,54
Fluo pink*	35A2074	51,10	35A4074	127,70	25,54
Fluo green*	35A2072	51,10	35A4072	127,70	25,54

BASES

Thinner base	35A4066	34,40	6,88
Production base	35A4058	40,40	8,08
Base metallic paste	3524095	167,30	33,46

SPECIAL EFFECT

Sylver paste	3542046	155,50	
Gold paste	3562096	56,40	

ADDITIVES

Room temperature hardener, per 100 g*	3540561	9,60	
Catalyst, in 100 g dose	35A0564	16,20	
Thickener, in 25 g dose	35A0263	6,80	

* Acrylic water based ink, FORMALDEHYDE FREE.

* ref: 3540561 : Acute inhalation toxicity, Category 4 ; Skin sensitisation, Category 1 ; Specific target organ toxicity (single exposure), Category 3 ; Hazardous to the aquatic environment - Chronic hazard, Category 3

DISCHARGE INK

Water based ink composed of a base (coloured or not) and an additive.

Discharge ink (base + additive) removes the back dye of a cotton fabric. The addition of a pigment concentrate to this preparation allows to replace the initial dying by a new one.

Acting as a decoloration/dying process, the printed areas has no touch and does not require a underlayer of white on dark fabrics.

CAUTION: only some textile back dyes can be removed with discharge inks. So please check with the fabric manufacturer if the fabric could match with the discharge ink (we strongly advise you to perform some tests).

Specifications

- **Water based acrylic base**
- pH: 8-9
- Ionic character: anionic/non ionic
- Pot life: 8 hours after adding the additive

Use

COLOURS

They can be obtained by mixing the base.

PREPARATION OF THE COLOURS

MIX: 2% to 5% pigment concentrate to 98-95% base.

The colour preparation has to be done prior to the addition of additive.

Before use, the additive must be mixed with the base or with the coloured base and pigment or with white colour in the following proportions:

On clear substrates

Base or white or coloured base: 850g
Additive: 50g

On dark substrates

Base or white or coloured base: 850g
Additive: 100g

The additive must be perfectly mixed with the base or colours.

After printing, the fabrics must not be stored for more than 2 hours at ambient temperature to ensure that the active product does not penetrate more into the fabric and does not bleach a larger area more than expected.

Drying: 2mn at 160°C.

Thinner:

It will need to be diluted, if necessary, with maximum 5% of water.

Cleaning the screens:

Water

Screen:

36 to 77 threads/cm

Emulsion:

200T (resistant to water based inks).

COLOURS	Ref. 1 l	Euro 1 x 1 l
PIGMENT CONCENTRATES		
Lemon	3522002	70,60
Yellow	3522004	70,60
Orange	3522006	70,60
Cherry red	3522008	91,70
Rubis red	3522012	70,60
Fuchsia	3522015	105,80
Violet	3522016	70,60
Primary blue	3522020	70,60
Mint green	3522035	70,60
Black	3522044	70,60
STANDARD COLOURS		
White (4.250 kg)	3754000	63,40
Base (4.250 kg)	3754058	59,00
Additive (250 g)*	3751264	14,30

* Additive ref. 3751264 : Germ cell mutagenicity, Category 2
Long-Term Aquatic Hazard- Chronic Hazard, Category 3



If offers a strong covering power and high flexibility required for folding and bending operations. Air drying ink intended for printing on fabrics and especially thick synthetics, used mainly to make bags, covers, cases, elastomer TPU, clothing, etc...

Specifications

- Appearance: satin
- Average density: 1,30
- Viscosity: 38 ± 5 Pa.s
- Drying:
 - ambient air 30 min. at 20°C
 - air jet dryer 2 min. at 60°C
- Pot life of the ink + catalyst mixture: 12 hours
- Opacity: excellent
- Coverage rate: 25 m²/kg with a 48 mesh
- Weather resistance: good
- Light fastness: good
- Solvents:
 - thinner 4905
 - retarder 4906
 - fineness retargel (max 10%)
- Cleaning solvents:
 - manual 2891, NS-81, NS-91 and NS-99
 - washer 2881, 2899, NS-81, NS-91 and NS-99
- Storage and expiry: refer to the label

Use

POLYTHANE ink can be used on most substrates made from synthetic fabric, using screens ranging from 21 threads (for retroreflective sylvester ref. **3472075** and reflecto ref. **3472078**) to 90 threads/ cm.

For ordinary use where no specific resistance is required it can be used without catalyst.

When increased resistance is required (adherence, flexibility, weather resistance), add to the **POLYTHANE** ink 10 % by weight of hardener XF 822.

When printing on textile which will be washed in domestic washing machines, it is essential to use catalyst XF 822.

We recommend you to check the ink compatibility and resistance on a textile by washing the printed item according to the specifications written on its label.

This ink combined with a catalyst allows you to print on working cloths by direct printing or by transfer (contact us for more informations). For fabrics on which adherence is an issue we recommend to use both the hardener together with the adherence agent ref 3472090 (3% in the ink)

Printing by transfer

You must use a powder adhesive for printing transfer.

Polythane ink, combined with 10% of hardener XF 822 (representing 10% of the ink weight), will be fixed on a matt polyester film for transfer (**2543600**).

Pre-gelling: ambient air or in the tunnel (1 min at 110°C after letting an adhesive powder).

Printing transfer: pressure 3 to 5 bars, temperature: 170°C - 190°C. Time : 20 to 30 seconds.

We advise you to check the following parameters with several washing resistance tests.

STANDARD COLOURS	Ref. 1 kg	Euro 1 x 1 kg
White	3472012	27,60
Antibleeding white	3472086	32,10
Antibleeding gray	3472043	34,20
Lemon OP	3472002	39,20
Gold yellow OP	3472004	27,90
Orange OP	3472006	32,10
Cherry red OP	3472008	38,50
Cyclamen	3472039	43,00
Violet	3472042	43,00
Primary blue	3472048	33,30
Deep blue	3472050	35,70
Medium green OP	3472033	32,30
Deep green OP	3472034	32,60
Black	3472072	29,70

4-COLOURS PROCESS THIXO

Thixo 4-colours yellow	3472051	41,60
Thixo 4-colours magenta	3472052	41,60
Thixo 4-colours cyan	3472054	41,60
Thixo 4-colours black	3472056	41,60
Thixo 4-colours base	3472058	41,60

OPAQUE

White	3472085	32,80
Yellow	3472087	57,30
Red	3472088	57,30
Green	3472089	57,30

BASE

Thinner base	3472084	31,20
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SPECIAL EFFECT

Retroreflective silver	3472075	53,00
Reflecto	3472078	84,50

ADDITIVES

Catalyst XF 822, in 100 g dose	3470503	10,00
Flexible catalyst, in 130 g dose	3470805	13,00
Gelling agent, per kg	3952061	58,60
Adhesion agent, 100 ml	3470590	17,00
Adhesion agent, 1 l	3472090	138,60

Storage and toxicology

The **POLYTHANE** inks comply with EN 71-3 standard.



TEXTILE TRANSFER

Use

- 1) Printing of the reversed pattern on the silicon paper.
 - 2) Pregelling in the tunnel : 1 mn to 100-110°C function of the equipment. Prints are not polymerised.
 - 3) Transfer on the textile by heating press with these following conditions : pressure 3 to 5 bars, temperature : 170-190°C, time 20 - 30 s.
 - 4) Take off the silicon paper after total cooling.
 - 5) Remove the siliconed paper or the shiny polyester carrier after complete cooling. Matt polyester can be cold peel or hot peel.
- N.B. :** For a better adherence on the textil, use adhesive powder (ref. 3863327).

Using advices:

- Put the paper with blanks in IR tunnel before starting printing.
- For a transfer application, ink polymerisation on the paper would bring defects for textil transfer.
- Test textil resistance under the press and also for transfer from paper to textil.
- Before using the transfer powder, we recommend to load it in a carton in to avoid statical electricity.

Advantage polyester versus paper: transparency and thermic stability.

The references **ADHESIVE OEKOFASH THERMOFUSING**, **ADHESIF POWDER THERMOFUSING** and **POWDER TRANSFER** comply to **OEKOTEX Standard Class 100 -1 for baby articles**.

Advantage of polyester film over siliconed paper: shiny polyester film can be used as a surfacing film in order that your direct printings or transfer printings get a glazed finish.

Concerning the transfer of **AQUATRANS**, **DREAMFLASH** and **POLYTHANE** inks, please refer to the related pages describing each of them.



References EVEREST & HIMALAYA, THERMOFUSING POWDER ADHESIVE et POWDER FOR TRANSFERT comply to OEKOTEX Standard Class 100 -1 for baby articles

ADDITIONAL PRODUCTS	Density by kg	Ref.	Euro	Equiva- lent in l	Equiva- lent in kg
Thermofusing plastisol adhesive, in 5 l bucket	1,12	3864021	111,60	22,32	19,93
Thermofusing plastisol adhesive white, in 5 l bucket	1,40	3864022	117,80	23,56	16,83
White adhesive EVEREST, in 5 l bucket	1,45	39C4098	121,70	24,34	16,79
Translucid adhesive EVEREST, in 5 l bucket	1,11	39C4099	116,50	23,30	20,99
HIMALAYA adhesive for stamping on ribbon, in 5 kg bucket	1,08	3864042	122,00	24,40	22,59
Thermofusing powder adhesive polyester, in 3 kg bucket		3863327	127,30		
Powder for transfer, in 3 kg bucket to add to the inks (10 % max.)		3863317	122,60		

DESCRIPTION		Ref.	Euro
hot-melt film (Mylar) in 0,75 x 125 m roll	gold	25B2100	142,40
	silver	25B2200	142,40
transfer paper, 105 gr/m² per 250 sheets	70 x 50 cm	2543100	195,20
	70 x 100 cm	2543200	283,90
polyester film for transfer, size 70 x 50 cm per 200 sheets	mat	2543600	333,20
	high	2543500	333,20

GLITTER PRINTING

Use

➤ Sparkled ink

20% glitter added to the glitter base (ref. 3954096). Shinybases(ref.3954091/39H4092) can bemixedwithsparklesto increase the shine effect. Screen is chosen according to glitter diameter. Mostly used: 21 threads/cm 004 and 008 glitter. Polymerisation: 2 mn at 160°C.

➤ Sparkle sprinkling on adhesive

Sparkle glue (ref. 3954099) can be printed with on fabric (mesh 14 to 21 th.cm). In case of porous fabrics, we recommend to use the gelling agent (ref.3952061) to maintain a layer of adhesive on surface of the fabric. Glitter are sprinkled on the paste. A calender is used to increase contact surface between glitter and adhesive. Surplus is blowed and printing are polymerised 2 mn at 160°C.

➤ Transfer

Glitter and glitter base (ref. 3954096) mix is printed on polyester brillant film for transfer (ref. 2543500), printing start to be geled 1 mn at 100 - 110°C.

Press conditions for the transfer :

- pressure: 3 to 5 bars
- temperature: 170 - 190°C
- time: 20 to 30 secondes

Cold peel off polyester.

BASES	Density by kg	Ref. 5 l	Euro 1 x 5 l	Equiva- lent in l	Equiva- lent in kg
Glitter base	1,15	3954096	72,40	14,48	12,59
Glossy elastic base Himalaya	1,09	39H4092	104,30	20,86	19,14
Glossy elastic base	1,17	3954091	98,80	19,76	16,89
ADHESIVES					
Glitter glue	1,12	3954099	103,30	20,66	18,45



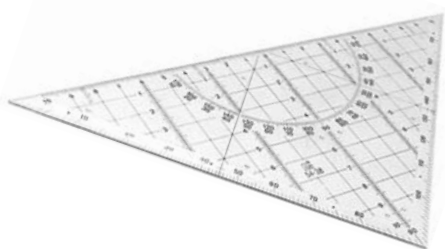


UV inks



Pages	40	41	42	43	44	45	46
Inks	UViprim Eco Plus	UViprim FL	UViprim GL	UViprim GL - BC	UViprim MS	UViprim PS	UViprim VY
Applications							
Papers, cardboards	x						x
Polypropylene in sheets as Priplak®, Akylux®					x with catalyst		x with catalyst
Polystyrenes, ABS					x	x	
Supple PVC, rigid PVC, self-adhesive	x				x		x
PE/PP bottles		x					
Polycarbonate					x	x	x
Glass			x	x			

p. 68 - Cleaning solvent
p. 69 - Solvent



Information displayed in our catalogue are based on our current knowledges and researchs. Therefore these materials have been prepared for information purposes only. Our responsibility can be engaged only if the customer has based his position on the information published on our Web-site.

In all cases, the user should carry out validation tests under his own conditions before launching our inks in printing his production.

The safety data sheets are available free at: www.tiflex.com/fds or dial our number (0) +33 4 74 37 33 80/97 to receive necessary and updated information.

UVIPRIM ECO PLUS

Ink with UV drying dedicated for printing on papers, cardboards, PVC for PLV. **NVP FREE.**

Specifications

- Appearance: glossy
- Average density: 1.15
- Viscosity: 5 ± 1 Pa.s
- Coverage rate: 100 m²/kg with a 150 - 31 mesh
- Weather resistance: good
- Light fastness (scale from 1 to 8): very good except for indoor applications
- Thinner: 31970NG*: 10% max.
- Cleaning solvents: 2881, 2891, NS-81 and NS-91
- Expiry: refer to the label

Use

UViprim ECO Plus ink has been formulated in order to print on the following sustrates:

- vinyl adhesive
- paper, cardboard
- supple and stiff PVC

The new UViprim Eco Plus ink allows multi layer printings without weakening the substrate.

Main characteristics are:

- ready to use inks
- highly glossy
- high reactivity
- large suppleness allowing the cutting in the ink film
- good resistance from outside

POLYMERISATION

The opaque white must be used alone whereas, diluting white can be used with other colourings with a 10 to 20% rate in order to get a correct opaqueness. The **UViprim Eco Plus** ink is used at delivery viscosity or slightly diluted, with 150-34 fabrics. The line colours polymerise between 20 and 40 m/min on PVC, in 150-34 under an 80 W/cm lamp.

On paper, under the same conditions, the passage speeds are halved.

As the chemical reaction continues, it is better not exceed 24 hours between each layer.

Moreover, adherence between the different colours, sometimes, must be check.

The polymerization speeds depends on the thickness deposited, the colour and the type of substrate, the type and number of UV lamps.

Due to the various printing configurations, it will better to perform some tests.

Storage and toxicology

The **UViprim Eco Plus** inks comply with EN 71-3 standard.

Storage duration: 1 year in its original packaging, between 10 and 30°C, stored away from any source of heat and out of direct sunlight.

STANDARD COLOURS	Ref. 5 kg	Euro 1 x 5 kg	Equivalent in kg	Ref. 25 kg	Euro 1x25kg	Equiva- lent in kg
STANDARD COLOURS FOR OUTDOOR APPLICATION						
Thinner white	3844000NG	148,50	29,70			
Resist lemon yellow	3844002RNG	179,50	35,90			
Gold yellow	3844004NG	148,50	29,70			
Resist orange	3844006RNG	172,90	34,58			
Resist scarlet	3844007RNG	199,80	39,96			
Resist red	3844008RNG	172,90	34,58			
Cyclamen	3844014NG	184,10	36,82			
Violet	3844016NG	148,50	29,70			
Blue	3844022NG	148,50	29,70			
Royal blue	3844028NG	148,50	29,70			
Emerald green	3844033NG	148,50	29,70			
Black	3844044NG	148,50	29,70			
STANDARD COLOURS FOR INDOOR APPLICATION						
Lemon yellow	3844002NG	148,50	29,70			
Orange	3844006NG	148,50	29,70			
Scarlet	3844007NG	148,50	29,70			
Red	3844008NG	148,50	29,70			
Green	3844032NG	148,50	29,70			
4-COLOURS PROCESS THIXO						
Thixo 4-colours yellow	3844050NG	150,00	30,00	3846050NG	633,10	25,32
Thixo 4-colours magenta	3844052NG	150,00	30,00	3846052NG	633,10	25,32
Thixo 4-colours cyan	3844054NG	150,00	30,00	3846054NG	633,10	25,32
Thixo 4-colours black	3844056NG	150,00	30,00	3846056NG	633,10	25,32
Thixo 4-colours thinner base	3844057NG	150,00	30,00	3846057NG	633,10	25,32
OPAQUE						
Opaque white	3844080NG	155,30	31,06			
Opaque black	3844081NG	155,30	31,06			
BASE						
Thinner base	3844058NG	148,50	29,70			
ADDITIVES						
Photoinitiator, per 100 g	38C0595	9,10				
Catalyst, 1 liter tin	3822090	53,20				

* diluent 31970NG : Skin Irritation, Category 2 ; Eye Irritation, Category 2, Skin sensitisation, Category 1



Ink with UV drying dedicated to printings on rigid or semi-rigid bottles of flamed polyethylene or polypropylene. NVP FREE. Excellent stability of the ink in the screen with a high reactivity during the curing process.

Specifications

- Glossy: finish
- Average density: 1,2
- Viscosity: 10 Pa.s - Rheology suitable for high printing speeds
- Covering power: 80 m²/kg with a 165 - 34 fabric
- Resistance to light: very good
- Thinner (maximum 5%): 31965* or 31970NG*
- Cleaning solvents: 2881, 2891 and NS-91

* diluent 31970NG : Skin irritation, Category 2 ; Eye irritation, Category 2, Skin sensitisation, Category 1
 * diluent 31965 : Skin irritation, Category 2 ; Eye irritation, Category 2 ; Skin sensitisation, Category 1 ; Specific target organ toxicity (single exposure), Category 3 ; Hazardous to the aquatic environment -Chronic hazard, Category 2

Use

SUBSTRATE TREATMENT

UViprim FL is formulated to print on PE and PP used in the bottle industry. The surface tension is very low, it is necessary to flame the substrate before printing (minimum 42mN/m). The surface to be printed needs to be clean without grease particles

POLYMERIZATION

UViprim FL is a highly-reactive single-component ink. Under a lamp of 160 – 200 W/cm, the ink cures at a rate of between 2500 and 4000 units per hour.

The tape resistance test should only be performed after the complet cooling of the bottle at ambient temperature.

The overlaying of colours must be done in line on multi-colour printing machine.

Adding 5% of hardener (representing 5% of the ink weigh) improves water resistance and solvents resistance, as well as encouraging a better adherence to difficult substrates. The effectiveness of the hardener can be observed 24 hours after printing.

The combination of the ink and the hardener mixture stable for 8 hours.

The speed of curing depends on numbers of parameters, including the thickness deposited and the opacity, colour and nature of the substrate.

Due to the various printing configurations, testing is essential before each new printing run.

Screens:

The mesh required will be from 140 to 180 threads/cm.

Dilution:

UViprim FL inks are ready to use. If the viscosity nevertheless needs to be reduced.

STANDARD COLOURS	Ref. 1 kg	Euro 1 x 1 kg
Thinner white*	3762085	39,70
Lemon*	3762002	52,00
Gold yellow*	3762004	47,90
Orange*	3762006	46,50
Scarlet*	3762007	54,70
Cherry red*	3762008	54,70
Cyclamen*	3762014	58,40
Violet*	3762016	49,30
Process blue*	3762027	41,10
Reflex blue*	3762025	52,00
Emerald green*	3762033	42,50
Black*	3762044	41,10
OPAQUE		
Opaque white AR	3762090	49,00
Opaque white	3762080	47,90
Opaque black	3762081	47,90
BASE		
Thinner base	3762066	41,10
ADDITIVES		
Photoinitiator, per 100 g	38C0595	9,10
Powder thickener, per 250 gr	3761295	31,30
Catalyst, 1 liter tin	3822090	53,20



Storage and toxicology

The UViprim FL inks comply with EN 71-3 standard. Storage duration: 1 year in its original packaging, between 10°C and 30°C. They must be stored away from a source of heat and out of direct sunlight.

The mono-component UViprim GL range is based on a DUAL CURE system (UV light + hot air). It is dedicated to a high speed screen printing on glass, with or without coating, for interior use. The dual cure system makes these inks insensitive with the extra thickness obtained on objects having a broad dimensional tolerance. Most of all, UViprim GL inks are shiny, opacity, highly reactivite and chemically resistant. **NVP FREE.**

Specifications

- Appearance: glossy
- Average density: 1,5
- Viscosity: 2 - 3 Pa.s
- Opacifying power:
 - Coloriflex system: low
 - Opaque inks: excellent
 - White, black: excellent
- Coverage rate: 75 m²/kg with a 100 mesh
- Thinner: 31965*, 5 % maxi
- Cleaning solvent: 2891, 2899, NS-91 and NS-99
- Expiry: refer to the label

* diluent 31965 : Skin irritation, Category 2 ; Eye irritation, Category 2 ; Skin sensitisation, Category 1 ; Specific target organ toxicity (single exposure), Category 3 ; Hazardous to the aquatic environment -Chronic hazard, Category 2

Use

Preparation of ink:

This ink is ready to use. However, some adjustments may be necessary according to the conditions for application and the desired aspect:

THINNER : 5% maxi.

CUTTING BASE: its use in inks to dilute the colour while it increases the transparency and the reactivity of the mix as well.

OPALESCENT BASE: its use in inks to dilute the colour while increasing the reactivity and opalescence by transmission with a loss of brilliance.

METALLIC INKS: to use the diluting base with our metallic pastes in a 85/15 or 80/20 proportion. The pot-life of the blend is of 4 hours.

Choice of the mesh:

Directly function of the printing speed and the required opacity. Generally, we will use a 165, 150, 140 down to 120 mesh fabric tended to 16N. The diameter of the wire will be selected to obtain the best compromise between the deposit, the solidity and the definition.

Our inks can stand heavy cycles of dishwashing, alcohols tests and G1 test blend.

SUPPORTS AND PRETREATMENTS

The quality of glass and its chemical structure are related to its manufacturing method. Its surface quality will have to be perfect i.e. free from release agent or any other residue (finger marks, dust, grease, silicone etc).

Untreated glass:

A flame treatment (surface tension > 44 mN/m) according to the UVitro® process (trade mark of ISIMAT GmbH) is necessary to obtain maximum performances.

Coated glass:

Many glass containers are covered with a water or solvent-based coating to modify the surface aspect (colour, opalescent, scratch resistance...): a flame treatment, right before printing, is then essential to obtain a sufficient surface tension and thus a good adherence.

POLYMERIZATION

Being based on a DUAL CURE system, this ink dries in two steps: under UV light, to obtain a dry ink surface and to authorize the immediate overprinting of it, and with hot air to obtain optimal chemical and physical resistances.

UV DRYING: at a printing speed of 3600 prints/h, use a lamp of 180-200W/cm minimum.

HOT AIR DRYING: only one 20 min at 165°C passage for the whole of the decoration.

The performances of the system are function of the material and the products used. Its industrial validation is imperative before final production run.

STANDARD COLOURS	Ref. 1 kg	Euro 1 x 1 kg
COLORIFLEX SYSTEM		
Lemon	3782002	65,90
Gold yellow	3782004	65,90
Orange	3782006	65,90
Scarlet	3782007	65,90
Red	3782008	65,90
Cyclamen	3782014	65,90
Violet	3782016	65,90
Blue	3782020	65,90
Royal blue	3782028	65,90
Green	3782032	65,90
4-COLOURS PROCESS		
4-colours yellow	3782050	65,90
4-colours magenta	3782052	65,90
4-colours cyan	3782054	65,90
4-colours black	3782056	65,90
TINTING		
Tinting white	3782042	65,90
Tinting black	3782044	65,90
EXTRA OPAQUE		
Opaque white	3782080	65,90
Opaque lemon	3782082	65,90
Opaque orange	3782083	65,90
Opaque red	3782084	65,90
Opaque green	3782085	65,90
Opaque black	3782081	65,90
BASE		
Thinner base	3782066	65,90
ADDITIVES		
Opalescent varnish	3782068	65,90
Etching varnish	3782069	65,90
Window varnish	3782067	65,90
Photoinitiator, per 100 g	38C0595	9,10
Gelling agent, per kg	3952061	58,60
Also available in metallic, pearlescent, fluorescent, iridescent, two-tones, etc ... shades. Please, contact us for details.		

Storage and toxicology

The UViprim GL inks comply with EN 71-3 standard.



The two components UViprim GL - BC ink is the best choice for high speed screen printing on glass, with or without coating, for indoor use. The main assets of UViprim GL inks are their shine, opacity, very high reactivity and chemical resistance. There is no need of thermic treatment. **NVP FREE.**

Specifications

- Appearance: glossy
- Average density: 1,5
- Viscosity: 2 - 3 Pa.s
- Opacifying power:
 - Coloriflex system: low
 - Opaque inks: excellent
 - White, black: excellent
- Coverage rate: 75 m²/kg with a 100 mesh
- Thinner: 31965*, 5 % maxi
- Cleaning solvent: 2891, 2899, NS-91 and NS-99
- Expiry: refer to the label
- Pot-life (4 % catalyst): 8 to 10 hours

* diluent 31965 : Skin irritation, Category 2 ; Eye irritation, Category 2 ; Skin sensitisation, Category 1 ; Specific target organ toxicity (single exposure), Category 3 ; Hazardous to the aquatic environment -Chronic hazard, Category 2

Use

Preparation of ink:

Prior to printing, add 4% catalyst UBC 100 and stir homogeneously. The mixture has a pot life of 8-10 hours at room temperature (20-25°C).

However, some adjustments may be necessary according to the conditions for application and the desired aspect:

THINNER: 5% maxi.

DILUTING BASE: its use in inks lightens the colour while increasing the transparency and thus the reactivity of the mixture.

OPALESCENT BASE: its use in inks lightens the colour while increasing the reactivity and opalescence by transmission with a loss of brilliance.

METALLIC INKS: to use the diluting base with our metallic pastes in a 85/15 or 80/20 proportion. The shelf-life of the blend is of 4 hours.

Choice of the screens:

Directly function of the printing speed and the desired opacity. Generally, one will use a 165 to 120 mesh (420-305 threads/inch) fabric tended to 16N. The diameter of the wire will be selected to obtain the best compromise between the deposit, the solidity and the definition.

ADVANTAGES

- Glossy
- Resists on dish washing
- Heavy metal free
- Basic shades are intermixable and allow the matching of color reference systems like Pantone®
- High reactivity
- Resistance to alcohol and G1 test blend
- Do not require thermal post treatment

POLYMERISATION

This ink dries in two steps : under UV light, to obtain a dry ink surface and to authorize the immediate overprinting of it, and with air to obtain optimal chemical and physical resistances.

UV DRYING: at a printing speed of 3600 prints/h, use a lamp of 180-200W/cm minimum.

ROOM TEMPERATURE: optimal adhesion is achieved after 24-48h at room temperature.

The performances of the system are function of the material and the products used. Its industrial validation is imperative before final production run.

This UV ink requires specific equipment between each polymerization process of screen printing.

It allows multicolour decoration on a single machine.

It is mainly used on hydro flamed coating or UVitro® or PYROSIL® Treated naked glass.

UVitro® : a trade mark of ISIMAT GmbH

PYROSIL® : a trade mark of SURA GmbH

STANDARD COLOURS	Ref. 1 kg	Euro 1 x 1 kg
COLORIFLEX SYSTEM		
Lemon	3462002	65,90
Gold yellow	3462004	65,90
Orange	3462006	65,90
Scarlet	3462007	65,90
Red	3462008	65,90
Cyclamen	3462014	65,90
Violet	3462016	65,90
Blue	3462020	65,90
Royal blue	3462028	65,90
Green	3462032	65,90
4-COLOURS PROCESS		
4-colours yellow	3462050	65,90
4-colours magenta	3462052	65,90
4-colours cyan	3462054	65,90
4-colours black	3462056	65,90
TINTING		
Tinting white	3462042	65,90
Tinting black	3462044	65,90
EXTRA OPAQUE		
Opaque white	3462080	65,90
Opaque lemon	3462082	65,90
Opaque orange	3462083	65,90
Opaque red	3462084	65,90
Opaque green	3462085	65,90
Opaque black	3462081	65,90
BASE		
Thinner base	3462066	65,90
ADDITIVES		
Catalyst, 100 gr	3460564	19,90
Catalyst, per kg	3462064	126,00
New generation catalyst, 100 gr	3460565	24,00
Opalescent varnish	3462068	65,90
Etching varnish	3462069	65,90
Window varnish	3462067	65,90
Photoinitiator, per 100 g	38C0595	9,10
Gelling agent	3952061	58,60
Also available in metallic, pearlescent, fluorescent, iridescent, two-tones, etc ... shades. Please, contact us for details.		

Storage and toxicology

The UViprim GL - BC inks comply with EN 71-3 standard.



UV drying ink designed for PVC self-adhesive printing, rigid PVC, polystyrene, treated polyester and polycarbonate.
NVP FREE.

Specifications

- Appearance: glossy
- Viscosity: 5 ± 1 Pa.s
- Coverage rate: 100 m²/l with a 150 - 34 mesh
- Light fastness: (scale from 1 to 8) good
- Thinner: 31970NG* or 3194058
- Cleaning solvents: 2881, 2891, NS-81 and NS-91
- Expiry: refer to the label

Use

This ink is designed for UV self-adhesive PVC, rigid PVC, polycarbonate, polystyrene, treated Corona Priplak® type polypropylene sheet. 10% of catalyst (ref. 3822090) should be added for effective adhesion on certain kind of plastics.

The UVprim MS ink is used at a standard viscosity or slightly diluted with mesh in the screen mesh 150 to 180 fibres/cm.

POLYMERIZATION

Covering white is used alone as a white ink, whereas the thinner white can be mixed with other colours in a proportion of 10% to 20% to obtain the correct opacity.

Fusion temperature speeds depend on the thickness deposited, the colour and the type of substrate, the type and the number of lamps.

The colours polymerize between 10 and 20 m/min under a 120 W/cm lamp. The tints containing white, like grey cross-link more slowly.

Faced with the variety of plastic substrates, a trial is crucial before going into production.

USE OF CATALYST

Good results have been obtained on Priplak® by mixing the ink with 10% of catalyst.

Moreover, on certain polyester or polystyrene adding 10% of catalyst gives excellent adherence.

The ink & catalyst mixture is stable for 12 hours.

Taking the reaction time into account, you have to wait 24 to 48 hours to obtain the best adherence and nail resistance.

Storage and toxicology

The UVprim MS ins inks comply with EN 71-3 standard.

Storage time: 18 months in its original packaging, between 10 and 30°C, when stored away from any source of heat and out of direct sunlight.

STANDARD COLOURS	Ref. 5 kg	Euro 1 x 5 kg	Equivalent in kg
Thinner white*	3794000	209,30	41,86
Covering white	3794087	209,30	41,86
Lemon*	3794002	227,70	45,54
Gold yellow*	3794004	227,70	45,54
Orange*	3794006	227,70	45,54
Scarlet*	3794007	252,80	50,56
Cherry red*	3794008	227,70	45,54
Cyclamen*	3794014	252,80	50,56
Violet*	3794016	252,80	50,56
Process blue*	3794027	227,70	45,54
Reflex blue*	3794025	227,70	45,54
Emerald green*	3794033	227,70	45,54
Black*	3794044	200,10	40,02

4-COLOURS PROCESS

4-colours yellow	3794050	227,70	45,54
4-colours magenta	3794052	227,70	45,54
4-colours cyan	3794054	227,70	45,54
4-colours black	3794056	227,70	45,54

ADDITIVES

Mat varnish	3794059	227,70	45,54
Gloss varnish	3794058	252,80	50,56
Photoinitiator, per 100 g	38C0595	9,10	
Catalyst, 1 liter tin	3822090	53,20	

*diluent 31970NG : Skin irritation, Category 2 : Eye irritation, Category 2, Skin sensitisation, Category 1



Ink with UV drying, NVP-free, intended for printing on rigid supports such as PVC, various types of polystyrene (high-impact, acrylic resin coated) and its derivatives SAN, ABS. Suitable on rigid polycarbonate, it also has applications in the bottle industry. NVP FREE.



Specifications

- Appearance: gloss
- Average density: 1.05
- Viscosity: 8 ± 2 Pa.s
- Coverage rate: 100 m²/kg with a 150 - 34 mesh
- Light fastness: very good
- Weather resistance: good
- Thinner (max. 10 %): 31970NG*
- Cleaning solvents: 2881, 2891, NS-81 and NS-91
- Expiry: refer to the label

Use

The **UViprim PS** inks are used at standard viscosity or slightly diluted with mesh screens (150 to 180 fibres/cm).

To obtain correct opacity, we recommend you to add from 10% to 20% of THINNER WHITE to the basic colours, WHITE ref. **3802000** must be used alone as white ink.

POLYMERIZATION

The fusion temperature speed depends on several parameters, especially the thickness deposited, the opacity, the colour and the type of substrate.

Faced with the numerous installations proposed, tests are essential whenever starting to print.

The white and the tints containing white colour will cure more slowly.

To obtain good adherence, the ink must be polymerized correctly.

For superposition, the 1st layer must not be over-polymerized. In addition, the adherence between the various colours must be checked from time to time.

Storage and toxicology

The **UViprim PS** inks comply with EN 71-3 standard.

They are non-flammable (high flash point).

Storage duration: 2 years in its original packaging, between 10°C and 30°C. They must be stored away from a source of heat and out of direct sunlight.

STANDARD COLOURS	Ref. 1 kg	Euro 1 x 1 kg	Ref. 5kg	Euro 1 x 5 kg	Equivalent du kg
Thinner white*	3802085	46,20	3804085	211,00	42,20
White	3802000	46,00	3804000	210,00	42,00
Lemon*	3802002	54,50	3804002	252,50	50,50
Gold yellow*	3802004	47,20	3804004	216,00	43,20
Orange*	3802006	49,50	3804006	227,50	45,50
Scarlet*	3802007	58,80	3804007	274,00	54,80
Cherry red*	3802008	58,80	3804008	274,00	54,80
Cyclamen*	3802014	58,80	3804014	274,00	54,80
Violet*	3802016	58,80	3804016	274,00	54,80
Process blue*	3802027	45,10	3804027	205,50	41,10
Reflex blue*	3802025	46,00	3804025	210,00	42,00
Emerald green*	3802033	46,00	3804033	210,00	42,00
Black*	3802044	41,90	3804044	189,50	37,90

4-COLOURS PROCESS

4-colours yellow	3802050	48,60	3804050	223,00	44,60
4-colours magenta	3802052	48,60	3804052	223,00	44,60
4-colours cyan	3802054	48,60	3804054	223,00	44,60
4-colours black	3802056	48,60	3804056	223,00	44,60
4-colours thinner base	3802057	48,60	3804057	223,00	44,60

BASE

Thinner base	3802058	45,20	3804058	206,00	41,20
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ADDITIVE

Photoinitiator, per 100 g	38C0595	9,10			
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*diluent 31970NG : Skin irritation, Category 2 ; Eye irritation, Category 2, Skin sensitisation, Category 1



UV curing ink intended for printing on rigid PVC, self-adhesive supports and polycarbonate. It is also used for printing on PLV cardboard. **NVP FREE.**



Specifications

- Appearance: glossy
- Average density: 1.05
- Viscosity: 3.5 ± 0.5 Pa.s
- Coverage rate: 90 m²/kg with a 165 -34 mesh
- Weather resistance: good
- Light fastness: very good
- Thinner: 3192058 max. 5 %
- Cleaning solvents: 2881, 2891 NS-81 and NS-91
- Expiry: refer to the label

Use

The **UViprim VY** range is intended for printing on rigid PVC, self-adhesive foils, polycarbonate, paper and cardboard.

Good results have been obtained on pre-treated polypropylene like Priplak® or Akylux® by mixing the ink with 5% of hardener (ref. 3822090).

The mixture is stable for 12 hours at 20°C. The efficiency of the hardener can be observed 24 hours after printing.

Since the Corona treatment has a limited lifetime, please check the surface condition of the substrate before.

Ready to use, we recommend a mesh between 140 to 180 threads/cm.

To obtain correct opacity, we recommend you to add from 10% to 20 % of THINNER WHITE to the basic colours. COVERING WHITE or EXTRA OPAQUE WHITE cannot be mixed with other colours and are printed as a single colour.

POLYMERISAZION

The polymerization speed depends on several parameters, particularly the printed thickness, the opacity, the colour and the type of support, the type and number of UV lights.

Due to the various configurations proposed, tests are required before starting printing.

The white colour and the tints (containing white) cure more slowly.

To obtain a good adherence, the ink must be polymerized correctly.

For superposition of layers, the 1st layer must not be over polymerized.

In addition, the adherence between the various colours must be checked from time to time during the process.

Storage and toxicology

The **UViprim VY** inks comply with EN 71-3 standard. Storage duration: 1 year in its original packaging, between 10 and 30°C, stored away from any source of heat and out of direct sunlight.

The **UViprim VY** do not contain vinyl pyrrolidone.

STANDARD COLOURS	Ref. 1 kg	Euro 1 x 1 kg	Ref. 5kg	Euro 1 x 5 kg	Equivalent du kg
Thinner white*	38C2085	36,40	38C4085	161,30	32,26
Covering white	38C2087	34,30	38C4087	150,90	30,18
Extra opaque white	38C2080	33,30	38C4080	145,70	29,14
Lemon*	38C2002	41,10	38C4002	185,20	37,04
Gold yellow*	38C2004	50,80	38C4004	234,10	46,82
Orange*	38C2006	44,00	38C4006	200,30	40,06
Scarlet*	38C2007	49,40	38C4007	228,90	45,78
Cherry red*	38C2008	41,10	38C4008	192,50	38,50
Cyclamen*	38C2014	51,90	38C4014	249,70	49,94
Violet*	38C2016	51,90	38C4016	249,70	49,94
Process blue*	38C2027	42,10	38C4027	192,50	38,50
Reflex blue*	38C2025	51,90	38C4025	249,70	49,94
Emerald green*	38C2033	44,00	38C4033	213,30	42,66
Black*	38C2044	33,30	38C4044	145,70	29,14
4-COLOURS PROCESS					
4-colours yellow	38C2050	41,10	38C4050	187,30	37,46
4-colours magenta	38C2052	41,10	38C4052	187,30	37,46
4-colours cyan	38C2054	41,10	38C4054	187,30	37,46
4-colours black	38C2056	41,10	38C4056	187,30	37,46
4-colours thinner	38C2057	41,10	38C4057	187,30	37,46
FLUO					
Fluo yellow	38C2070	61,40	38C4070	296,50	59,30
Fluo orange	38C2073	61,40	38C4073	296,50	59,30
Fluo red	38C2071	61,40	38C4071	296,50	59,30
Fluo pink	38C2074	61,40	38C4074	296,50	59,30
Fluo green	38C2072	61,40	38C4072	296,50	59,30
BASE					
Thinner base	38C2066	41,10	38C4066	187,30	37,46
ADDITIVES					
Textured varnish			38C4098	255,50	51,10
Shiny overprint varnish	38C2090	39,30			
Photoinitiator, per 100 g	38C0595	9,10			



Solvent inks

Pages	48	49	50	51	52	53	55	56	56	57	58	59	60	61	62	63	64	65	66	67
Inks	AKILOR	CELLULOSIQUE S.T.J.	EPOXY EV	FLUO PLASTIQUE	MATIFLEX	MULTIFLEX	PLAXOLOR	POLYCOLOR	POLYCOLOR EXTRA OPAQUE	POLYFIFLEX	PROPYLUX	SELECTACRYL	SICCATIVE	TAMPOCOLOR	URETHAL	VERNIS ANTI SALISSURE	VINYFLEX	VINYLIQUE BRILLANTE	VINYLIQUE MATE	XF 260
Applications																				
Melamine boards															x					
Chromalux																		x		
Papers, cardboards					x							x					x	x	x	
Wood		x										x	x							
PMMA (Plexi-glass - Altuglass) rigid PVC (Forex)				x		x	x	x				x		x	x	x	x	x	x	
polystyrenes and PVC							x					x								
ABS		x		x			x	x				x		x	x		x	x	x	
Supple PVC				x		x									x				x	
Self adhesives				x		x	x	x				x		x	x	x	x	x	x	
Treated polyethylenes	x		x							x				x	x					
Treated polypropylenes			x							x	x			x	x					
Polycarbonate				x					x			x			x	x	x	x	x	
Metals			x										x							x
Glass			x										x							
treated polyester (front)								x	x											
Alu anodisé (make tests)			x											x	x					x
Painted substrates (make tests)			x									x	x		x		x	x		

Specific inks	<p>p. 54 - Noir XE 880, Etching resist ink</p> <p>p. 54 - Metallic pastes gold & silver</p> <p>p. 63 - Chromo transfer varnish</p>	<p>p. 68 - Cleaner solvent</p> <p>p. 69 - Solvent</p>
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Information displayed in our catalogue are based on our current knowledges and researchs. Therefore these materials have been prepared for information purposes only. Our responsibility can be engaged only if the customer has based his position on the information published on our Web-site.
 In all cases, the user should carry out validation tests under his own conditions before launching our inks in printing his production.
 The safety data sheets are available free at: www.tiflex.com/fds or dial our number (0) +33 4 74 37 33 80/97 to receive necessary and updated information.

Glossy air drying ink intended for printing E-flute polypropylene (Akylux®), treated by Corona effect (since the duration of this treatment is limited, carry out preliminary tests).

Specifications

- Appearance: from satin finish to shiny finish
- Average density: 1.10
- Viscosity: $v8 \pm 3$ Pa.s
- Drying:
 - air: 15 min. at 20°C with a 120 - 34 mesh
 - pulsed air: tunnel 30 s at 50/55°C with a 120 - 34 mesh
- Covering power by opacity: good to very good for black and white
- Coverage rate: 50 m²/kg with a 120 - 34 mesh
- Weather resistance: good except for fluo colours
- Special resistance: oil, grease
- Solvents:
 - thinner: 4909* or 2899 (antistatic effect)
 - retarder: 4900 or propygel
- Cleaning solvent:
 - manual: 2881 2891, 2899, NS-81, NS-91, NS-99 and NS-100
 - washer: 2899, NS-81, NS-91, NS-99, and NS-100
- Expiry: refer to the label

Use

AKILOR inks are printed on pre-treated polypropylene sheets, used for outdoor short and medium duration signs: construction site panels, display racks, etc.

10 to 30% matting base must be added, depending on the required finish.

The mixture Thinner Base/Gold Paste is stable max. 48h.

Do not use antistatic agents with these inks; if necessary, use thinner **ref. 2899** which will produce this effect. **AKILOR** inks suit to the printing of fragile plastics as SAC (Styrene Acrylonitrile Copolymer) (preliminary tests recommended).

To make prints easier on half automatic screen printing machine, we require to use a special solvent **ref. 3Y2530** available on request.

Storage and toxicology

The **AKILOR** inks comply with EN 71-3 standard.

STANDARD COLOURS	Ref. 1 kg	Euro 1 x 1 kg
OP		
White OP*	3882000	29,80
Lemon OP*	3882002	42,00
Gold yellow OP*	3882004	38,00
Orange OP*	3882006	47,80
Cherry red OP*	3882008	45,20
Carmine red OP*	3882013	45,20
Cyclamen OP*	3882014	46,40
Violet OP*	3882016	49,00
Medium blue OP*	3882022	34,50
Deep blue OP*	3882026	37,70
Royal blue OP*	3882024	35,60
Medium green OP*	3882032	41,20
Deep green OP*	3882034	45,00
Brown OP*	3882042	37,70
Black OP*	3882044	32,70
4-COLOURS PROCESS THIXO		
Thixo 4-colours yellow	3882050	42,80
Thixo 4-colours magenta	3882052	42,80
Thixo 4-colours cyan	3882054	42,80
Thixo 4-colours black	3882056	42,80
Thixo 4-colours base	3882057	42,80
FLUO		
Fluo lemon	3882070	50,50
Fluo red	3882071	50,50
Fluo green	3882072	50,50
BASES		
Overprint varnish and thinner base	3882058	39,00
Matting base	3882065	40,30

* 4909 : Flammable liquid, Category 3 ; Specific target organ toxicity (single exposure), Category 3 ; Aspiration hazard, Category 1 ; Hazardous to the aquatic environment - Chronic hazard, Category 2



Matt air drying ink intended for printing on polystyrene, ABS and wood.

Specifications

- Appearance: matt
- Average density: 1.35
- Viscosity: 20 ± 2 Pa.s
- Drying:
 - air 20 to 30 min. at 20°C depending on the substrate
- Covering power by opacity: good
- Coverage rate: 35 m²/l with a 100 - 40 mesh
- Weather resistance: medium
- Solvents:
 - thinner 4906
 - retarder retargel or 9640
- Cleaning solvents:
 - manual 2881, 2891, 2899, NS-81, NS-91, NS-99 and NS-100
 - washer 2881, NS-81, NS-91, NS-99, and NS-100
- Expiry date: refer to the label

Use

S.T.J. CELLULOSIQUE ink has been specially designed for the marking of polystyrene and its copolymers. It is recommended particularly for fine lines (graduation).

It can possibly be used with pad printing equipment.

Due to insufficient flexibility, it cannot be integrated in thermoforming.

Storage and toxicology

The **CELLULOSIQUE S.T.J.** inks comply with EN 71-3 standard.

STANDARD COLOURS	Ref. 1 l	Euro 1 x 1 l
White	3422007	30,40
Lemon	3422015	36,90
Gold yellow	3422022	36,90
Cherry red	3422036	40,80
Medium blue	3422050	32,20
Bright green	3422057	41,10
Black	3422077	25,00
BASE		
Thinner base and overprint varnish	3422084	20,10



EPOXY EV

2-component ink offering excellent adherence on glass and metal and exceptional resistance to chemical agents. Not suitable for outdoor use. All colours are formulated with no silicone additive to allow silvering.

Specifications

- Appearance: glossy
- Average density: 1.20 for the OP colours and thixo four-colour process
- Viscosity: 8 ± 1 Pa.s
- Drying:
 - air 45 min. at 20°C
 - air jet dryer 5 min. at 80°C (can be handled)
- Curing: 30 min. at 160°C (complete polymerization)
- Covering power by opacity: good
- Coverage rate: 45 m²/kg with a 100 -40 mesh
- Special resistance after polymerization: bases and solvents
- Solvents:
 - thinner 2899
 - retarder 4906, 4921 and NS-99
- Cleaning solvent:
 - manual and washer 2899 and NS-99
- Expiry date: refer to the label

Use

Mix the ink and the catalyst for 15 minutes before printing.
20 % to 30% of the matting base can be used, depending on the required finish.

Catalyst	Use	Dose for use
2606	Thixotropic doesn't reduce the viscosity of the inks. Idem XE 606. For glass with 2.5% agent (ref. 3320289): curing of 30' at 160°C	Inks and mat base : 100 Catalyst : 10 Overprint varnish : 100 Catalyst : 15
XG 800	Gives build and improves the adherence in some difficult cases.	Inks and mat base : 100 Catalyst : 20 Overprint varnish : 100 Catalyst : 30
6969	The moire reactive with low temperatures, the more polyvalent. Metals and thermo hardeners. 2.5% agent (ref. 3320289): curing of 30' at 160°C: DISHWASHER PROOF.	Inks and mat base : 100 Catalyst : 10 Overprint varnish : 100 Catalyst : 15 Pot Life: 8h max at 20°C

Storage and toxicology

The EPOXY EV inks comply with EN 71-3 standard.



STANDARD COLOURS	Ref. 1 kg	Euro 1 x 1 kg
Covering white	3322000	26,90
OP		
White OP*	3322005	20,80
Lemon OP*	3322002	34,70
Gold yellow OP	3322015	31,90
Orange OP*	3322020	34,70
Cherry red OP*	3322008	38,20
Carmine red OP*	3322033	56,50
Cyclamen OP*	3322030	39,70
Violet OP*	3322035	43,60
Medium blue OP*	3322040	29,50
Deep blue OP*	3322045	32,60
Royal blue OP*	3322050	29,70
Medium green OP*	3322032	30,40
Deep green OP*	3322034	35,80
Brown OP*	3322060	33,80
Black OP*	3322065	20,80

4-COLOURS PROCESS THIXO

Thixo 4-colours yellow	3322080	42,00
Thixo 4-colours magenta	3322082	42,00
Thixo 4-colours cyan	3322084	42,00
Thixo 4-colours black	3322086	42,00
Thixo 4-colours base	3322088	42,00

BASES

Thinner base and overprint varnish	3322079	22,00
Matting base	3322078	23,70

ADDITIVE

Tension agent, per kg	3262050	79,90
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STANDARD COLOURS	Ref.	Euro
Catalyst 2606, 100 g dose	3320594	9,80
Catalyst 2606, 1 kg boxe	3322094	35,80
Catalyst XG 800, 200 g dose	3321097	10,70
Catalyst XG 800, 1 kg boxe	3322097	33,50
Catalyst 6969, 100 g dose	3320796	9,80
Catalyst 6969, 1 kg boxe	3322096	35,80
ADDITIVE		
Adherence agent, 25 g dose*	3320289	11,50

* Adherence agent, ref 3320289 : Serious eye damage, Category 1

Air drying ink intended for printing on flexible (tarpaulins) or rigid PVC, PMMA, polystyrene, polycarbonate and ABS.

Specifications

- Average density: 1,05
- Viscosity: 7 ± 1 Pa.s
- Covering power by opacity: few
- Coverage rate: 35 m²/l with a 100 - 40 mesh
- Weather resistance: few
- Light fastness: few
- Solvent:
 - thinner 4909*
 - retarder 4900
 - brush 4909*
- Cleaning solvents:
 - manual 2881, 2891, 2899, NS-81, NS-91, NS-99 and NS-100
 - washer 2881, NS-81, NS-91, NS-99, and NS-100
- Expiry: refer to the label

FLUO	Density by kg	Ref. 1 l	Euro 1 x 1 l	Equivalent in kg
Fluo lemon	1,02	3352060	47,80	46,86
Fluo orange	1,05	3352066	47,80	45,52
Fluo red	1,03	3352069	47,80	46,41
Fluo pink	1,03	3352072	47,80	46,41
Fluo green	1,02	3352075	47,80	46,86

* 4909 : Flammable liquid, Category 3 ; Specific target organ toxicity (single exposure), Category 3 ; Aspiration hazard, Category 1 ; Hazardous to the aquatic environment - Chronic hazard, Category 2

Use

The **PLASTIC FLUO** inks are especially suitable for printing on rigid or flexible PVC (plates, tubes, sheets, PVC coated cloth).

In addition, they offer excellent adherence on polycarbonate, polymethyl methacrylate, ABS and polystyrene.

They must be printed on white or on very light backgrounds.

On flexible PVC, check that the «antiblocking» qualities of this ink are sufficient.

Storage and toxicology

The **PLASTIC FLUO** inks comply with EN 71-3 standard.



Thin-film, fast-drying, matt ink, dedicated to print poster papers and cardboards.

Specifications

- Appearance: matt
- Average density: 1,04
- Viscosity: 3.5 ± 1.5 Pa.s at 20°C
- Drying:
 - ambient air 10 min. at 20°C
 - pulsed air tunnel 30 s at 50°C
- Coverage rate: 65 m²/kg with a 120 - 34 mesh
- Weather resistance: good
- Light fastness: medium, 7 to 4 depending on the colours
- Solvents:
 - thinner 4909*
 - retarder 4900
 - semi-retarder gelified 4907
- Cleaning solvents:
 - manual 2881, 2891, NS-81, NS-91, NS-99 and NS-100
 - washer 2899, NS-81, NS-91, NS-99, and NS-100
- Expiry: refer to the label

Storage and toxicology

The **MATIFLEX** inks comply with EN 71-3 standard.

Pantone® correspondance

Lemon	→ Yellow	Red	→ 485 2x	Royal blue	→ Reflex blue
Gold yellow	→ 116	Cyclamen	→ Rhodamine	Green	→ 354
Orange	→ 021	Violet	→ Violet	Dark green	→ Green 2x
Scarlet	→ Warm red	Blue	→ Process blue		

STANDARD COLOURS	Ref. 5 kg	Euro 1 x 5 kg	Equivalent in kg
White	3854000	90,20	18,04
Lemon	3854002	90,20	18,04
Gold yellow	3854004	90,20	18,04
Orange	3854006	90,20	18,04
Scarlet	3854007	90,20	18,04
Red	3854008	104,50	20,90
Cyclamen	3854014	109,30	21,86
Violet	3854016	109,30	21,86
Blue	3854022	90,40	18,08
Royal blue	3854028	90,40	18,08
Green	3854032	90,40	18,08
Dark green	3854034	95,10	19,02
Black	3854044	77,40	15,48

4-COLOURS PROCESS THIXO

Thixo 4-colours yellow	3854051	83,60	16,72
Thixo 4-colours magenta	3854053	83,60	16,72
Thixo 4-colours cyan	3854054	83,60	16,72
Thixo 4-colours black	3854056	83,60	16,72
Thixo 4-colours base	3854057	83,60	16,72

FLUO

Fluo yellow	3854071	149,00	29,80
Fluo red	3854072	149,00	29,80

* 4909 : Flammable liquid, Category 3 ; Specific target organ toxicity (single exposure), Category 3 ; Aspiration hazard, Category 1 ; Hazardous to the aquatic environment - Chronic hazard, Category 2



Glossy air drying ink intended for printing on flexible (tarpaulins), rigid and adhesive PVC, polymethyl methacrylate and polycarbonate. Gives glossy printing with excellent blocking resistance.

Specifications

- Appearance: glossy
- Average density: 1.10
- Viscosity: 8 ± 2 Pa.s
- Drying:
 - ambient air: 15 min. at 20°C
 - air jet dryer: 30 s at 50°C
- Covering power by opacity: good
- Coverage rate: 50 to 60 m²/l with a 120 34 mesh
- Special resistance: white gas
- Weather resistance: good
- Light fastness: good
- Solvents:
 - thinner: 4905
 - retarder: 9640
 - **adherence on flexible PVC and tarpaulins**: **9640**
 - gun: XC876
 - brush: 4903
- Cleaning solvents:
 - manual: 2881, 2891, NS-81, NS-91, and NS-100
 - washer: 2881, 2899, NS-81, NS-99, and NS-100
- Expiry: refer to the label
- **Special property:** **thermoformable**

Use

The **MULTIFLEX** inks, are particularly suitable for printing on rigid and flexible PVC (self-adhesive, plates, tubes, sheets, PVC coated cloth).

They also display excellent adherence on polycarbonate and polymethyl methacrylate.

Not suitable on polystyrene and ABS.

On flexible unvarnished PVC, check that the antiblocking qualities of these inks are sufficient.

10% to 20% matting base must be added, depending on the required finish.

MULTIFLEX white OP is not as flexible as the other colours in the range when very thick (more than 100 µm wet), check that the properties obtained are suitable.

Can be used on all printing materials (manual, semi-automatic, automatic, roller to roller).

STANDARD COLOURS	Ref. 5 kg	Euro 1 x 5 kg	Equivalent in kg
OP			
White OP*	3534000	128,40	25,68
Lemon yellow OP*	3534002	189,30	37,86
Gold yellow OP*	3534004	147,20	29,44
Orange OP*	3534006	159,60	31,92
Cherry red OP*	3534008	192,40	38,48
Carmine red OP*	3534013	205,00	41,00
Cyclamen OP*	3534014	180,00	36,00
Violet OP*	3534016	179,90	35,98
Medium blue OP*	3534022	136,20	27,24
Royal blue OP*	3534024	128,40	25,68
Deep blue OP*	3534026	145,50	29,10
Medium green OP*	3534032	167,50	33,50
Deep green OP*	3534034	173,70	34,74
Brown OP*	3534042	125,20	25,04
Black OP*	3534044	125,20	25,04
BASES			
Thinner base and overprint varnish anti-UV	3534058	133,10	26,62
Matting base	3534065	136,20	27,24

Storage and toxicology

The **MULTIFLEX** inks comply with EN 71-3 standard.



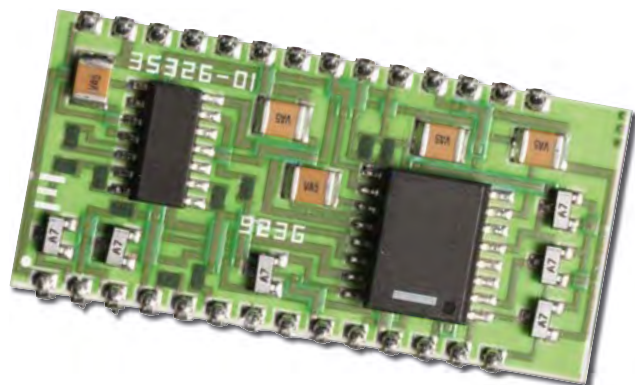
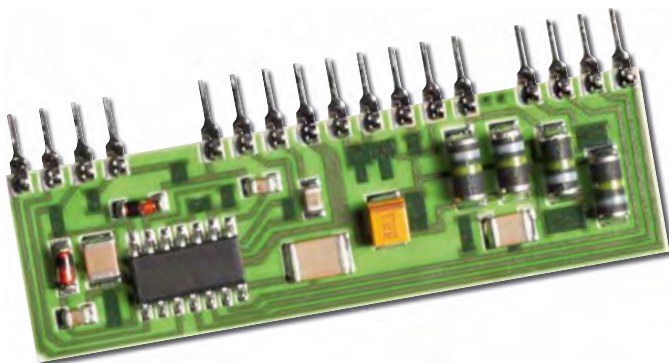
NOIR XE 880, ETCHING RESIST INK

This ink withstands chemical etching baths and is removable with solvents.

We recommend you to print a homogeneous ink film (mesh 90 threads/cm) to obtain a significant resistance to engraving.

Ink will be removed with solvent 4909.

STANDARD COLOURS	Ref. 1 kg	Euro 1 x 1 kg
Noir XE 880, etching resist ink	3512020	33,70



METALLIC PASTES

TIFLEX already proposes, in the mat VINYLIQUE and SELECTACRYL series ready-to-use, highly stable, metallic inks. For the other series, we prefer to deliver, for stability reasons, metallic pastes and colourless bases in separate packages.

The 2 components are mixed to obtain the same shades, and the quantities to be used can be prepared as required.

Specifications

The base should be added to the paste while stirring.

Recommended proportions:

gold paste (1 or 3 or Copper) colourless paste
(20 to 30%) + (80 to 70%)

silver paste colourless paste
(20 to 25%) + (80 to 75%)

*The leafing silver paste gives a white glossy finish but it cannot be overprinted the non-leafing silver paste can be overprinted and does not powder on the surface.

**The GOLD pastes have no stability with the URETHAL + standard catalyst.

GOLD URETHAL will be obtained by a coloring of the silver paste (contact us for more info).

STANDARD COLOURS	Ref. 1 l	Euro 1 x 1 l
SPECIAL EFFECT		
Gold n°1**	3552015	57,10
Gold n°3**	3552030	132,30
Leafing silver*	3552075	41,60
Sparkle silver	3552080	75,60
Non-leafing silver*	3552085	36,90



Glossy air drying ink dedicated to print on acrylic resin coated polystyrene, its copolymers and rigid and acrylic resin coated PVC. Perfectly suitable for automatic screen-printing and curable in a pulsed air dryer.

Specifications

- Appearance: glossy
- Average density: 1,05
- Viscosity: 7 ± 1 Pa.s
- Drying:
 - ambient air 20 min. at 20°C
 - pulsed air tunnel 1 min. at 60°C with a 120 -34 mesh
- Covering power: good
- Coverage rate: 48 m²/kg with a 120 - 34 mesh
- Special resistance: petrol
- Weather resistance: good
- Light fastness: good, 6 to 8 depending on the blue scale
- Solvents:
 - thinner 4920
 - accelerator 4905 (for automatic screen-printing)
 - retarder 4960 or retargel or 9640
 - gun XC 876
- Cleaning solvents:
 - manual 2881, 2891, NS-81, NS-91, NS-99, and NS-100
 - washer 2881, NS-81, NS-91, NS-99, and NS-100
- Expiry date: refer to the label
- Special property: **thermoformable**

Use

The **PLAXOLOR** ink is specific for printing on acrylic resin coated polystyrene and rigid and acrylic resin coated PVC.

Can be used on polymethyl methacrylate and on polycarbonate, after preliminary tests.

Do not use on flexible PVC (tarpaulin, leather goods, etc.) or on crystal polystyrene.

10 to 20% matting base must be added, depending on the required finish.

Storage and toxicology

The **PLAXOLOR** inks comply with EN 71-3 standard.

STANDARD COLOURS	Ref. 1 l	Euro 1 x 1 l
OP		
White OP*	3392012	23,30
Lemon OP*	3392002	34,00
Gold yellow OP*	3392022	28,80
Orange OP*	3392007	36,90
Cherry red OP*	3392008	39,40
Carmin red OP*	3392033	62,80
Cyclamen OP*	3392034	55,80
Violet OP*	3392035	55,80
Medium blue OP*	3392040	27,50
Deep blue OP*	3392042	31,40
Royal blue OP*	3392043	26,10
Medium green OP*	3392048	37,50
Deep green OP*	3392051	38,90
Brown OP*	3392058	38,90
Black OP*	3392055	24,80
BASES		
Thinner base and overprint varnish	3392060	22,00
Matting base	3392065	24,80



POLYCOLOR

Glossy air drying ink intended for printing on self-adhesive PVC, rigid, polymethyl methacrylate, ABS and some treated Polyesters.

Specifications

- Appearance: glossy
- Average density:
 - 1.05 for the coloriflex system shades
 - 1.10 for the OP shades
 - 1.00 for the four colour shade
- Viscosity: 10 ± 1 Pa.s
- Drying:
 - ambient air 15 min. at 20°C
- Covering power:
 - medium for the coloriflex system shades
 - good for the OP shades
- Coverage rate: 45 m²/kg with a 120 -34 mesh
- Special resistance: alcohol, petrol
- Weather resistance:
 - excellent for the coloriflex system and four-colour shades
 - good for the OP colours
- Light fastness:
 - excellent for the coloriflex system and four-colour shades
 - good for the OP colours
- Solvents:
 - drying activator 4905
 - thinner 4945
 - retarder retargel or 9640
- Cleaning solvents:
 - manual 2881, 2891, NS-81 and NS-91
 - washer 2881, 2899, NS-81 and NS-91
- Expiry date: refer to the label
- Special property: thermoformable

Use

The **POLYCOLOR** ink is mainly intended for printing on self-adhesive substrates.
The COLORIFLEX system inks offer maximum light fastness and are therefore ideal for outdoor use.
Depending on the required finish, 10 to 20% matting base can be used.

Storage and toxicology

The **POLYCOLOR** inks comply with EN 71-3 standard.

STANDARD COLOURS	Ref. 1 kg	Euro 1 x 1 kg
COLORIFLEX SYSTEM		
White*	3992010	23,90
Lemon*	3992012	43,10
Gold yellow*	3992015	33,80
Orange*	3992018	31,80
Scarlet*	3992007	45,50
Cherry red*	3992022	46,60
Cyclamen*	3992024	45,50
Violet*	3992026	45,50
Blue*	3992030	31,40
Royal blue*	3992032	55,50
Emerald green*	3992034	31,10
Black*	3992035	24,50
OP		
Lemon OP*	3992041	37,30
Gold yellow OP*	3992045	29,10
Orange OP*	3992048	37,50
Cherry red OP*	3992051	37,50
Carmin red OP*	3992053	45,80
Cyclamen OP*	3992052	39,00
Violet OP*	3992054	39,00
Medium blue OP*	3992060	27,90
Deep blue OP*	3992062	32,00
Royal blue OP*	3992064	28,70
Medium green OP*	3992056	32,90
Deep green OP*	3992067	37,50
Brown OP*	3992069	32,00
4-COLOURS PROCESS THIXO		
Thixo 4-colours yellow	3992082	33,50
Thixo 4-colours magenta	3992084	40,10
Thixo 4-colours cyan	3992080	33,50
Thixo 4-colours black	3992086	33,50
Thixo 4-colours base	3992088	33,50
BASES		
Thinner base and anti-UV overprint varnish	3992005	24,60
Matting base	3992008	24,60

POLYCOLOR EXTRA-OPAQUE

Matt air drying ink intended for printing on polycarbonate and on polyester. This ink does not adhere to PVC and is not thermoformable.

Caution : POLYCOLOR EXTRA OPAQUE ink cannot be mixed with the POLYCOLOR standard serie.

Specifications

- Appearance: matt
- Average density: 1.35
- Viscosity: 10 ± 2 Pa.s
- Drying:
 - air 15 min. at 20°C
- Covering power by opacity: excellent
- Coverage rate: 20 to 25 m²/kg with a 61 -64 mesh
- Solvents:
 - thinner 4920
 - retarder 4960
- Cleaning solvents:
 - manual 2881, 2891, NS-81 and NS-91
 - washer 2881, 2899, NS-81 and NS-91
- Expiry: refer to the label

EXTRA OPAQUE	Ref. 1 kg	Euro 1 x 1 kg	Ref. 5 kg	Euro 1 x 5 kg	Equiva- lent in kg
Extra opaque white	3992040	31,30	3994040	104,60	20,92
Extra opaque black	3992065	33,50	3994065	114,80	22,96
Attention : the «extra opaque white» and «extra opaque black» are mat					

Use

The **EXTRA-OPAQUE** inks are reserved as the last opacifying layer for the front sides of treated polycarbonate and polyester.

Storage and toxicology

The **EXTRA-OPAQUE** inks comply with EN 71-3 standard.

Air drying ink especially designed for printing on polyolefins (polyethylene and polypropylene) : crates, buckets, etc.

Specifications

- Appearance: satin
- Average density: 1,18
- Viscosity: 12 ± 2 Pa.s
- Drying:
 - air (20°C) dust dry: 1 h
 - dry 12 to 24 h
- Covering power by opacity: good
- Coverage rate: 50 m²/l with a 120 -34 mesh
- Solvents:
 - thinner 4909*
 - retarder 4900, propygel
- Cleaning solvents:
 - manual 2881, 2899, NS-81 and NS-99
 - washer 2881, 2899, NS-81 and NS-99
- Expiry date: refer to the label

STANDARD COLOURS	Ref. 1 l	Euro 1 x 1 l
White 6100	3432009	31,30
Lemon OP	3432002	48,70
Gold yellow OP	3432004	40,70
Orange OP	3432006	48,70
Cherry red OP	3432008	38,50
Primary blue 6140 OP	3432063	38,50
Royal blue 6135	3432054	38,50
Deep green OP	3432034	42,60
Black 6165	3432081	30,90
BASE		
Thinner base 4720 and overprint varnish	3432090	30,90

* 4909 : Flammable liquid, Category 3 ; Specific target organ toxicity (single exposure), Category 3 ; Aspiration hazard, Category 1 ; Hazardous to the aquatic environment - Chronic hazard, Category 2

Use

The **POLYTIFLEX** ink is ideal for manual or low speed printing. To obtain excellent adherence, we recommend you to flame the substrate before printing. This ink should not be used for printing on thin films.

Storage and toxicology

The **POLYTIFLEX** inks comply with EN 71-3 standard.



PROPYLUX

Glossy air drying ink intended for printing on polypropylene, frequently encountered as Akilux® and Priplak® brands. It can adhere to untreated polypropylene (use of bonding primer), but flaming or Corona treatment, when possible, further improves its performance.

Specifications

- Appearance: glossy
- Average density: 1,10
- Viscosity: 8 ± 1 Pa.s
- Drying:
 - ambient air 15 min. at 20°C
 - air jet dryer 2 min. at 60°C
- Covering power by opacity: good
- Coverage rate: 50 m²/kg with a 120 - 34 mesh
- Weather resistance: poor
- Alcohol resistance: good
- Light fastness: quite good
- Solvents:
 - thinner 4909*
 - retarder propygel or 4900
- Cleaning solvents:
 - manual 2881, 2899, NS-81 and NS-99
 - washer 2899
- Expiry date: refer to the label

Use

The **PROPYLUX** ink was designed for printing on fluted or sheet polypropylene.

These inks should not be used for printing on thin films (sheaths). The adhesion primer **ref. 3302070** improves the adherence of **PROPYLUX** ink on untreated substrates.

If resistance to grease and/or sweating is required, it is essential to overprint the ink after drying with propylux varnish **ref. 3302075**.

10% to 20% matting base must be added, depending on the required finish.

Storage and toxicology

The **PROPYLUX** inks comply with EN 71-3 standard.

STANDARD COLOURS	Ref. 11	Euro 1 x 1 l
White	3302005	27,50
Lemon	3302010	34,30
Gold yellow	3302015	35,40
Orange	3302020	39,10
Cherry red	3302025	43,00
Cyclamen	3302047	43,60
Violet	3302030	53,90
Medium blue	3302035	33,80
Royal blue	3302040	38,70
Medium green	3302045	34,50
Black	3302050	28,90
BASES		
Thinner base	3302060	30,40
Vernish	3302075	30,50
ADDITIVE		
Adhesion primer 3X1189, per litre	3302070	26,00

* 4909 : Flammable liquid, Category 3 ; Specific target organ toxicity (single exposure), Category 3 ; Aspiration hazard, Category 1 ; Hazardous to the aquatic environment - Chronic hazard, Category 2



Glossy air drying ink intended for printing on self-adhesive PVC, polymethyl methacrylate, ABS, polystyrene, paper and cardboard.

Specifications

- Appearance: glossy
- Average density: 1,05
- Viscosity: 10 ± 1 Pa.s
- Drying:
 - ambient air 15 min. at 20°C
 - air jet dryer 2 min. at 50°C
- Covering power: medium for the Coloriflex system
good for white, black and metallized colours
- Coverage rate: 50 m²/l with a 120 - 34 mesh
38 m²/l with a 100 - 40 mesh
- Weather resistance: excellent, good glossy retention
- Light fastness: excellent, 7 to 8 depending on the blue scale
- Solvents:
 - thinner 4920 or 4941
 - drying activator 4905
 - retarder 4960 or retargel or 9640
 - adhesion 4903
 - gun XC 876
- Cleaning solvents:
 - manual 2881, 2891, NS-81, NS-91, NS-99 and NS-100
 - washer 2881, NS-81, NS-91, NS-99, and NS-100
- Expiry: refer to the label

STANDARD COLOURS	Ref. 1 l	Euro 1 x 1 l
COLORIFLEX SYSTEM		
White*	3372010	27,10
Lemon*	3372015	45,20
Gold yellow*	3372020	36,60
Orange*	3372025	36,60
Scarlet*	3372007	51,20
Cherry red*	3372030	50,20
Cyclamen*	3372040	50,80
Violet*	3372045	49,20
Blue*	3372050	30,70
Royal blue*	3372052	56,20
Emerald green*	3372055	32,20
Black*	3372060	25,00
SPECIAL EFFECT		
Sparkle silver	3372075	35,40
Gold n°1	3372065	36,90
BASES		
Thinner base and overprint varnish anti U.V.	3372080	25,40
Matting base	3372085	25,40

Use

The **SELECTACRYL** ink, with its exceptionally bright shade and its semi-opaque appearance, is dedicated to printing on self-adhesive supports and illuminated signs.

Generally, we recommend you to print on self-adhesive PVC, rigid PVC, polymethyl methacrylate, ABS and polystyrene.

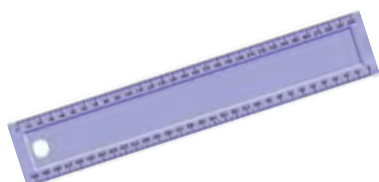
* 10% to 20% matting base must be added, depending on the required finish.

When printing on crystal polystyrene, it will be necessary to dilute with solvents ref. 4941 and ref. 4960 only.

Not suitable on flexible PVC.

Storage and toxicology

The **SELECTACRYL** inks comply with EN 71-3 standard.



PHARMACIE

SICCATIVE

It is a glycerophthalic ink drying by oxidation. This ink is used to print on metal, glass and minerals.

Specifications

- Appearance: glossy
- Average density: 1,28
- Viscosity: 10 ± 2 Pa.s
- Drying:
 - air (20°C) dust dry 2 to 3 h, dry 24h
 - oven dust free 1 h at 100°C
- Covering power: excellent
- Coverage rate: 44 m²/l with a 100 - 40 mesh
- Weather resistance: good
- Solvents:
 - thinner 4909*
 - retarder 4900
- Cleaning solvents:
 - manual 2881, 2891, 289, NS-81, NS-91, NS-99 and NS-100
 - washer 2899, NS-81, NS-91, NS-99 and NS-100
- Expiry: refer to the label

Use

SICCATIVE ink is used when good outdoor performance is required: on metals, etc.) and on minerals (slate, brick, ceramic, glass).

For non-ferrous metals please contact us.

STANDARD COLOURS	Ref. 11	Euro 1 x 1 l
White 3405	3412048	29,10
Lemon OP	3412002	55,90
Gold yellow OP	3412004	38,10
Orange OP	3412005	49,60
Cherry red OP	3412008	44,00
Primary blue 3302	3412006	37,70
Royal blue 3303	3412012	37,70
Mid green OP	3412032	42,50
Deep green OP	3412034	49,20
Black 3380	3412042	29,10
BASE		
Thinner base 4750	3412090	29,10

* 4909 : Flammable liquid, Category 3 ; Specific target organ toxicity (single exposure), Category 3 ; Aspiration hazard, Category 1 ; Hazardous to the aquatic environment - Chronic hazard, Category 2



Shiny pad printing ink (ambient drying) dedicated to printings on rigid PVC, polymethyl Methacrylate, polycarbonate, polystyrene, aluminium. By using an hardener, both treated polypropylene and treated polyethylene can be printed.

Specifications

- Aspect : Shiny
- Average density: 1,1
- Viscosity: 4 ± 1 Pa.s
- Drying:
 - ambient air 1 mn
 - complete polymerization 72 hours
- Ink pot life and hardener: 8 hours
- Weather Resistance: average
- Light resistance: average
- Specific resistance: alcohol, petrol (with hardener)
- Solvents:
 - thinner 4960
 - accelerator 4905
- Cleaning solvents:
 - manual 2881, 2891, NS-81, NS-91 et NS-99
 - Washer 2881, NS-81, NS-91 et NS-99
- Expiry date: refer to the label

Use

For difficult adherence on substrate or when a specific chemical adherence is required (alcohol resistance, petrol resistance, weather resistance) our **TAMPOCOLOR** ink will be combined with an hardener (representing 5% of the ink weigh).

Pot life of the ink will be 8 hours at 20°C. In case of the increase of the ambient temperature, using time will be automatically reduced.

Optimal performances will be obtained at least 72 hours after drying.

TAMPOCOLOR inks can be mixed together.

Dilution to 15%.

Storage and toxicology

The **TAMPOCOLOR** inks comply with EN 71-3 standard.

STANDARD COLOURS	Ref. 1 kg	Euro 1 x 1 kg
White OP*	33A2000	35,20
Lemon OP*	33A2002	42,70
Gold yellow OP*	33A2004	42,70
Orange OP*	33A2006	42,70
Cherry red OP*	33A2008	42,70
Carmine red OP*	33A2013	42,70
Cyclamen OP*	33A2014	42,70
Violet OP*	33A2016	42,70
Medium blue OP*	33A2022	42,70
Deep blue OP*	33A2026	42,70
Medium green OP*	33A2032	42,70
Deep green OP*	33A2034	42,70
Black OP*	33A2044	35,20
4-COLOURS PROCESS THIXO		
Thixo 4-colours yellow	33A2050	42,70
Thixo 4-colours magenta	33A2052	42,70
Thixo 4-colours cyan	33A2054	42,70
Thixo 4-colours black	33A2056	42,70
OPAQUE		
Opaque white	33A2080	35,20
Opaque red	33A2088	52,50
Opaque lemon	33A2082	52,50
Opaque green	33A2085	52,50
BASE		
Thinner base OP*	33A2066	35,20
ADDITIVE		
Catalyst, 100 g	33A0560	18,90



URETHAL

Two components polyurethane ink suitable for printing on ABS, flexible or rigid PVC, self-adhesives, laminated compressed wood, treated polyethylene, treated polypropylene, coated glass.

Specifications

- Appearance: glossy
- Average density: 1,10
- Viscosity: 8 ± 2 Pa.s
- Drying:
 - ambient air can be handled after 75 min. can be stacked after 12 hours complete polymerisation after 72 hours preliminary tests
 - IR tunnel
- Coverage rate: 43 m²/kg with a 100 - 40 mesh
- Special resistance: excellent to chemical products
- Weather resistance: very good
- Light fastness: very good
- Solvents:
 - thinner et brosse 4904 ou 4905
 - retarder 4960 or 9640
 - gun XC 876
- Cleaning solvents:
 - manual 2881, 2891, NS-81, NS-91, NS-99 and NS-100
 - washer 2881, NS-81, NS-91, NS-99 and NS-100
- Expiry: refer to the label
- Special property: thermoformable

Use

The **URETHAL** inks are mixed with URETHAL hardener in a ratio of 100 to 15 by weight, apart from WHITE which has a ratio of 100 to 10.

The pot life of the mixture is more than 8 hours at 20°C.

Higher temperatures reduce the pot life and the time of use.

The final performance is obtained after at least 72 h drying.

The **URETHAL** inks are miscible together.

The screen must be cleaned immediately after printing.

For brush application, dilute at 25% with thinner ref. 4904.

The thinner base is anti-UV.



STANDARD COLOURS	Ref. 1 kg	Euro 1 x 1 kg
COLORIFLEX SYSTEM		
White*	3572011	24,00
Lemon*	3572021	44,80
Gold yellow*	3572023	33,80
Orange*	3572031	33,80
Scarlet*	3572007	47,90
Cherry red*	3572043	43,00
Cyclamen*	3572051	49,80
Violet*	3572053	47,20
Blue*	3572061	31,90
Royal blue*	3572063	60,60
Emerald green*	3572071	31,90
Black*	3572081	24,00
4-COLOURS PROCESS THIXO		
Thixo 4-colours yellow	3572050	37,90
Thixo 4-colours magenta	3572052	37,90
Thixo 4-colours cyan	3572054	37,90
Thixo 4-colours black	3572056	37,90
BASES		
Thixo 4-colours base	3572057	37,90
Overprint varnish and thinner base	3572091	23,30
Matting base	3572090	26,90
ADDITIVES		
Adherence agent, 25 g dose*	3320289	11,50
Urethal catalyst, 150 g dose	3570803	13,40
Urethal catalyst, 1 kg bottle	3572003	47,10

* Adherence agent, ref 3320289 : Serious eye damage, Category 1

Storage and toxicology

The **URETHAL** inks comply with EN 71-3 standard.



2-component cleanable protective varnish resistant to water-based and alcohol-based felt tip pens and Velleda® felt tip pens (CONTE). It is applied only as overprinting on MAT VINYL inks or on non acrylic resin coated PVC.

Specifications

- Appearance: high glossy
- Average density: 1.05
- Drying:
 - dry stackable 24 h at 20°C minimum
 - polymerisation 72 h at 20°C minimum
- Pot life: > 8 h at 20°C
- Coverage rate: 40 m²/l with a 90-48 mesh
- Solvents:
 - thinner 4905
 - gun XC 876
- Cleaning solvents:
 - manual 2881, 2891, NS-81, NS-91, NS-99 and NS-100
 - washer 2881, 2899, NS-81, NS-91, NS-99 and NS-100
- Expiry date: refer to the label

STANDARD COLOURS	Ref. 1 l	Euro 1 x 1 l
Anti-fouling varnish (750 g varnish + 250 g catalyst)	3352098	37,80

Storage and toxicology

The anti-fouling varnish for erasable writing comply with EN 71-3 standard.



Use

15 min to 30 min. before printing, mix the varnish and the catalyst in the following proportions by weight:

- varnish: 75 measures
- 25 measures

At this stage, the mixture can be used for 8 hours at 20°C. The **ANTI-FOULING VARNISH** is applied only on MAT VINYL inks used in the manufacture of labels, of panels, time tables on PVC. For optimum results, we recommend you to use of a 90 - 48 mesh. Final resistance is obtained after 8 days at 20°C.

Appearance of humidity may cause drying failures.

Then be sure the substrate remain completely dry.

In case of a significant dilution, increase the deposit.

CHROMO TRANSFER VARNISH

Enamel based inks are printed on specific transfer paper. Chromo varnish is applied on the whole surface of decalcomania.

After cooking, enamels are welding, the varnish sublimates and disappeared.

VARNISH	Ref. 25 l	Euro 1 x 25 l	Equivalent in l
Yellow chromo transfer varnish 3800, 25 l drum	3836020	326,50	13,06
Incolore chromo transfer varnish 3915, 25 l drum	3836030	326,50	13,06



Glossy air drying ink intended for printing on polycarbonate, ABS, hard PVC, polymethyl methacrylate and painted metal.

Specifications

- Appearance: glossy
- Average density: 1,12
- Viscosity: 7 ± 1 Pa.s
- Drying:
 - ambient air 12 min. at 20°C
 - air jet dryer 45 s at 50°C
- Covering power: good
- Coverage rate: 45 m²/kg with a 120 - 34 mesh
- Special resistance: alcohol, petrol
- Weather resistance: good
- Light fastness: good
- Solvents:
 - thinner 4920
 - drying activator 4905
 - retarder 4960 or retargel 9640
 - gun XC 876
 - brush 4905
- Cleaning solvents:
 - manual 2881, 2891, NS-81, NS-91, and NS-100
 - washer 2881, NS-81, NS-91 and NS-100
- Expiry: refer to the label
- Special property: thermoformable

Use

The VINYFLEX is particularly suitable to print on polycarbonate or even on vinyl self-adhesives when a perfect resistance to alcohol and petrol is required.

Suitable to print on most of painted metallic substrates

This ink has great thermoformable properties.

Upon the final effect required, the matt base must be mixed with the ink respecting a 10% to 30% ratio.

This ink is not suitable for printing neither on flexible PVC nor on polystyrene.

The white ink (ref. 3482090) was formulated for the producer of metallic painted parts such as extinguishers or drums when a significant mesh opening time is required to make the handling easy.

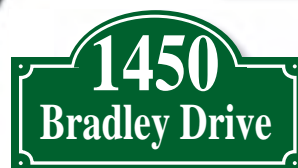
The covering white (ref. 3482045) will be used as a high opaque white to be printed on clear PMMA or polycarbonate.

The adhesive (ref. 0380) is used for cross labeling on printed polycarbonate with VINYFLEX ink.

Storage and toxicology

The VINYFLEX inks comply with EN 71-3 standard.

STANDARD COLOURS	Ref. 1 l	Euro 1 x 1 l	Ref. 5 l	Euro 1 x 5 l	Equivalent in kg
White OP*	3482003	26,50	3484003	87,70	17,54
White SLE*	3482090	27,30			
Lemon OP*	3482002	36,20			
Gold yellow OP*	3482005	28,90			
Orange OP*	3482006	30,10			
Cherry red OP*	3482009	34,70	3484009	128,70	25,74
Carmine red OP*	3482013	43,70			
Cyclamen OP*	3482014	40,90			
Violet OP*	3482015	40,90			
Light blue	3482056	27,80			
Medium blue OP*	3482022	33,10			
Primary blue	3482024	32,70			
Deep blue OP*	3482028	34,80			
Royal blue	3482060	36,60			
Medium green OP*	3482033	33,50			
Deep green OP*	3482034	33,50			
Brown	3482080	32,10			
Black OP*	3482043	27,40	3484043	92,40	18,48
Covering black	3482045	28,90	3484045	96,70	19,34
BASES					
Thinner base and overprint varnish anti-UV	3482040	27,40	3484040	93,80	18,76
Matting base	3482042	30,60			



Glossy air drying ink particularly intended for printing on self-adhesive substrates.

Specifications

- Appearance: high glossy
- Average density: 1,12
- Viscosity: 7 ± 1 Pa.s
- Drying:
 - ambient air 15 min. at 20°C
 - air jet dryer 1 min. at 50°C
- Covering power: good
- Coverage rate: 50 m²/l with a 120 -34 mesh
- Weather resistance: good
- Solvents:
 - thinner 4920
 - drying activator 4905
 - retarder 4960 or retarget or 9640
 - gun XC 876
- Cleaning solvents:
 - manual 2881, 2891, NS-81, NS-91, NS-99 and NS-100
 - washer 2881, NS-81, NS-91, NS-99, and NS-100
- Expiry date: refer to the label

Use

The **GLOSSY VINYL** inks are printed on all varnished vinyl or polyester self-adhesive supports and also on polycarbonate sheets (macrolon®, lexan®).

10% to 30% matting base must be added, depending on the required finish.

Not suitable on flexible PVC.

Storage and toxicology

The **GLOSSY VINYL** inks comply with EN 71-3 standard.

STANDARD COLOURS	Density by kg	Ref. 11	Euro 1 x 11	Equivalent in kg
White 8500	1,36	3342004	25,30	18,60
Covering white 8505	1,48	3342006	28,00	18,92
Lemon yellow OP	1,06	3342002	31,30	29,53
Gold yellow OP	1,09	3342005	26,50	24,31
Orange OP	1,10	3342007	26,70	24,27
Cherry red OP	1,10	3342009	29,70	27,00
Carmine red OP	1,04	3342013	37,20	35,77
Cyclamen 8560	1,10	3342028	38,90	35,36
Violet 8570	1,11	3342032	38,90	35,05
Light blue 8580	1,13	3342036	24,40	21,59
Primary blue 8590	1,09	3342040	28,40	26,06
Deep blue 8600	1,07	3342044	30,60	28,60
Royal blue 8605	1,02	3342046	30,60	30,00
Medium green OP	1,08	3342033	32,10	29,72
Deep green OP	1,08	3342034	29,80	27,59
Brown OP	1,10	3342042	29,80	27,09
Black 8660	1,03	3342068	22,20	21,55

4-COLOURS PROCESS THIXO

Thixo 4-colours yellow 8670	1,02	3342081	34,30	33,63
Thixo 4-colours magenta 8680	1,13	3342082	34,30	30,35
Thixo 4-colours cyan 8690	1,03	3342083	34,30	33,30
Thixo 4-colours black 8700	1,13	3342085	34,30	30,35
Thixo 4-colours base 8710	1,12	3342096	34,30	30,63

BASES

Thinner base 4860	1,00	3342072	19,20	19,20
Matting base	1,10	3342074	27,90	25,36
Overprint varnish anti-UV		3342076	23,70	



VINYLIQUE MATE

Air drying ink intended for printing on flexible (tarpaulins) or rigid PVC. Gives satin to matt finish printing with good resistance to blocking, alcohol and gasoline.

Specifications

- Appearance: satin to mat
- Average density: 1.24
- Viscosity: 12 ± 2 Pa.s
- Drying:
 - air 10 min. at 20°C
- Covering power: good
- Coverage rate: 43 m²/l with a 100 - 40 mesh
- Special resistance: alcohol, petrol
- Weather resistance: good
- Solvents:
 - thinner 4920
 - retarder 4960
 - adhesion 4903 or 9640
 - gun XC 876 (minimum 70%)
 - brush 4905
- Cleaning solvents:
 - manual 2881, 2891, NS-81, NS-91, and NS-100
 - washer 2881, NS-81, NS-91, and NS-100
- Expiry date: refer to the label
- **Special property:** **thermoformable**

Use

The **MAT VINYL** inks are particularly suitable for printing on rigid or flexible PVC (plates, tubes, sheets, PVC coated nylon and polyester cloth).

In addition they display excellent adherence on polycarbonate and polymethyl methacrylate.

Storage and toxicology

The **MAT VINYL** inks comply with EN 71-3 standard.

STANDARD COLOURS	Density by kg	Ref. 11	Euro 1 x 11	Equivalent in kg
White 4580	1,55	3352033	26,70	17,23
Lemon OP	1,31	3352002	42,60	32,52
Gold yellow OP	1,21	3352004	28,40	23,47
Orange OP	1,23	3352007	30,70	24,96
Cherry red OP	1,30	3352008	40,80	31,38
Primary red 4500	1,34	3352021	40,50	30,22
Cyclamen	1,36	3352025	51,90	38,16
Violet	1,36	3352026	55,00	40,44
Primary blue 4400	1,38	3352003	27,50	19,93
Royal blue 4401	1,32	3352006	27,10	20,53
Medium green OP	1,32	3352032	34,40	26,06
Deep green OP	1,32	3352034	34,40	26,06
Brown 4560	1,40	3352030	32,50	23,21
Black 4600	1,29	3352036	22,20	17,21

SPECIAL EFFECT

Silver	1,21	3352040	29,20	24,13
Gold n°1 4622	1,25	3352042	41,50	33,20

BASES

Glossy thinner base and overprint varnish anti-UV	1,00	3352057	26,10	26,10
Mat thinner base and overprint varnish anti-UV	1,00	3352070	26,10	26,10



Mixed air drying ink offering good adherence on various substrates:

- metal, particularly aluminium and its alloys (curing essential)
- PVC (drying in ambient air).

Specifications

- Appearance: satin
- Average density: 1.10
- Viscosity: 6 ± 3 Pa.s
 - ambient air 20 min at 20°C
 - oven curing 15 min. at 130°C
- Covering power: good
- Coverage rate: 48 m²/kg with a 120 - 34 mesh
- Special resistance: alcohol, petrol
- Weather resistance: good
- Light fastness: good
- Solvents:
 - thinner 4920
 - drying activator 4905
 - retarder 4960 or retargel or 9640
 - gun XC 876
- Cleaning solvents:
 - manual 2881, 2891, NS-81, NS-91 and NS-100
 - washer 2881, NS-81, NS-91 and NS-100
- Expiry date: refer to the label

STANDARD COLOURS	Ref. 1l	Euro 1 x 1l	Ref. 5l	Euro 1 x 5l	Equivalent in kg
Covering white			3594006	135,40	27,08
OP					
White OP			3594005	120,90	24,18
Lemon OP	3592010	50,20			
Cherry red OP	3592008	50,20			
Medium blue OP	3592040	50,20			
Medium green OP	3592055	50,20			
Black OP			3594065	112,90	22,58
BASE & ADDITIVE					
Thinner base and overprint varnish			3594090	119,50	23,90

Use

The **XF 260** ink is mainly used for printing on anodized and sealed aluminium, and for printing on aluminium plates which will be stamped.


For these 2 applications, curing 15 min at 130°C is essential.

Storage and toxicology

The **XF 260** inks comply with EN 71-3 standard.



CLEANING SOLVENTS


DESCRIPTION		Ref. 1 l	Euro 1 x 1 l	Ref. 5 l	Euro 1 x 5 l	Equivalent in l
4900 retarder	3	3112000	17,70			
4903 thinner	30	3132000	14,30			
4904 thinner	4	3132050	18,60			
4905 thinner	12	3142000	15,30	3144000	54,90	10,98
4906 retarder	6	3152000	16,30			
4909 thinner*	21	3162000	12,80			
*4920 thinner	10	3182000	14,30	3184000	45,00	9,00
4921 retarder	< 1	3202000	15,10			
4941 thinner	22			3234000	116,60	23,32
4945 thinner	6			3194085	61,50	12,30
4960 retarder	2	3242000	25,00	3244000	98,40	19,68
XC 876 for gun	200			3274000	40,80	8,16
4999 (industrial alcohol)	170			3294010	31,70	6,34
9640 retarder	2	3192076	25,10			
31965 thinner*	x	3192065	29,00			
31970NG thinner*		3192072	30,90			
Diluent UViprim VY inks		3192058	34,10			

* **4909**: Flammable liquid, Category 3 ; Specific target organ toxicity (single exposure), Category 3 ; Aspiration hazard, Category 1 ; Hazardous to the aquatic environment - Chronic hazard, Category 2

* **diluent 31970NG**: Skin irritation, Category 2 ; Eye irritation, Category 2 ; Skin sensitisation, Category 1

* **diluent 31965**: Skin irritation, Category 2 ; Eye irritation, Category 2 ; Skin sensitisation, Category 1 ; Specific target organ toxicity (single exposure), Category 3 ; Hazardous to the aquatic environment -Chronic hazard, Category 2

MISCELLANEOUS

DESCRIPTION		Ref. 1 l	Euro 1 x 1 l	Ref. 5 l	Euro 1 x 5 l	Equivalent in l
Plasticizer XD835 (do not use with phthalate free inks series)		3192040	16,30	3194040	54,90	10,98
Drying activator 7158 (FLASHCOLOR, EVEREST, DREAMFLASH)				3194020	54,90	10,98
Plastifying thinner EVEREST				3194024	110,60	22,12
Drying activator HIMALAYA				3194030	85,20	17,04
Plastifying thinner HIMALAYA				3194034	74,40	14,88
3X9394 retarder (water base inks range)		3X939420	21,60	3X939440	58,40	11,68
3Y1598 thickening (Aquatrans)		3Y159820	26,60			
Antistatic 3X0186, 1 kg boxe		3262030	28,10			
Tension agent, 1 kg boxe		3262050	79,90			
Retargel, 1 kg boxe	6	3392070	24,00			
Propygel, 1 kg boxe	3	3302080	27,40			

DESCRIPTION	Ref. 5 kg	Euro 1 x 5 kg
Water based glue 0380 applied with foam roll or brush on pallet	3344078	107,80

SOLVENTS

DESCRIPTION		Ref. 5 l	Euro 1 x 5 l	Ref. 25 l	Euro 1 x 25 l	Ref. 200 l	Euro 1 x 200 l
2881	universal solvent for all Tiflex inks excepted epoxy and polyamid	3064000	26,15	3066000	92,20	3068000	631,30
4881		3004000	26,15	3006000	92,20	3008000	631,30
2891		3074000	28,55	3076000	104,25	3078000	725,70
4891		3014000	28,75	3016000	105,00	3018000	734,60
2899	solvents for epoxy and polyamid inks, can be used in automatic washing screens, can also be used as thinner	3044000	27,65	3046000	99,60	3048000	691,45

SOLVENTS NS

TIFLEX proposes a range of screen solvents.»NS» serial, these solvents are non toxic,hace a high flash point and are formulated in order to protect environment for all screenprinters.

DESCRIPTION		Ref. 5 l	Euro 1 x 5 l	Ref. 25 l	Euro 1 x 25 l	Ref. 200 l	Euro 1 x 200 l
NS-81		3024020	40,15	3026020	163,35	3028020	1 203,15
NS-91		3024010	36,55	3026010	145,15	3028010	1 058,05
NS-95		3024095	36,55	3026095	145,15	3028095	1 058,05
NS-99		3024030	36,90	3026030	146,85	3028030	1 073,75
NS-100		3024040	47,45	3026040	199,65	3028040	1 493,40



GENERAL TERMS AND CONDITIONS OF SALE AND SERVICE PROVISION

1. PREAMBLE:

The present general terms and conditions of sale and service provision (hereinafter referred to as the "General Terms and Conditions") shall be applicable to all sales of standard and specific products (hereinafter referred to as the "Products") as well as the provision of all services (hereinafter referred to as the "Provision of Services") undertaken and provided by TIFLEX (hereinafter referred to as the "Seller" or "TIFLEX") to its clients having the capacity of professionals (hereinafter referred to as "Client(s)" or the "Buyer").

Sales and the provision of services by TIFLEX to Clients are solely and exclusively governed by the present General Terms and Conditions, and may be completed by special terms and conditions drafted and agreed between the Parties, with the exclusion of any other document such as notices, prospectuses, catalogues or other documentation issued by TIFLEX, which is only issued for information purposes and shall only have an indicative value.

Any sale of Products and/or the supply of Services by TIFLEX to the Client, as well as any purchase order issued by the Client and accepted by TIFLEX shall imply unreserved acceptance of the present General Terms and Conditions by the Client, notwithstanding any other clauses to the contrary, handwritten or otherwise, indicated on orders, letters or other documents issued by Clients.

The present General Terms and Conditions constitute the sole foundation on which commercial negotiations are undertaken between the Parties, pursuant to article L. 441-6 of the Commercial Code. Consequently, in the event of any contradiction between the present General Terms and Conditions and the General Terms and Conditions of Purchase of the Client, the Parties hereby agree that the present General terms and conditions shall prevail in full.

2. ORDERS:

2.1. The characteristics of Products and/or Services are those which appear in the purchase order as accepted by both parties and/or the estimate.

The offers made by the Seller are undertaken subject to the availability of Products at the time when an offer is received.

Any request made by a Client with a view to the design of a specific Product by TIFLEX and not appearing in the usual offer of the Seller, and/or any Service issued by TIFLEX shall lead to the establishment of a specific offer.

The details of Services undertaken by TIFLEX appear in the estimate and/or offer sent by TIFLEX to the Client.

2.2. The orders for Products and/or Services are issued in writing (fax, letter, email, etc.) and more widely by any means, by the Client. Sale is only complete and/or the contract definitive (hereinafter referred to as the "Contract") following written confirmation by TIFLEX with acknowledgement of receipt.

Any order placed by the Client of which the specifications and characteristics differ from the offer issued by TIFLEX shall only be considered as accepted by way of written confirmation from TIFLEX.

2.3 Failing any specific indication on the offer, the validity of TIFLEX offers and estimates is limited to one calendar month.

TIFLEX offers and estimates do not constitute recommendations by TIFLEX to the Buyer who shall remain solely and exclusively liable for the choice of Products.

2.4. Products sold by the Seller are led to change, and the latter may at any time amend their characteristics or components for any reason whatsoever or remove a Product from its catalogues and/or commercial documents. These amendments may be made at any time, including following the order by the Buyer if these amendments result from the application of any standards, legislation or regulations whatsoever, applicable to the Products.

2.5. The minimum order is one hundred fifty (€150) Euros excluding tax, shipping and packaging. Any order below this minimum amount shall be increased by way of a participation in processing fees of sixty (€60) Euros excluding tax.

2.6. For special (non standard) inks, TIFLEX hereby reserves the right to deliver ten (10)% above or below the quantity ordered.

3. ORDER CANCELLATION OR SUSPENSION:

Any suspension or cancellation, at the express request of the Client, of an order for standard Products or specific Products and/or the supply of Services by TIFLEX, shall lead to an invoice being issued for the full price of the order and/or Service pertaining thereunto.

4. DELIVERY – NON COMPLIANCE - RETURNS:

4.1 Notwithstanding any provisions to the contrary agreed between TIFLEX and the Client, TIFLEX shall fulfil its obligation of delivery at the time of provision of the Products to the Client on the premises of TIFLEX (hereinafter referred to as the "Delivery"), pursuant to the Ex-Works interterm (CCI 2010). The Client shall be notified by simple service of notice by any means to the Client.

The Client should take possession of the Products, by any means (transportation, collection), within ten (10) days following the date of notice of provision by TIFLEX. Beyond this period all additional fees, notably for storage and custody, incurred by TIFLEX shall be payable by the Client, and invoiced by TIFLEX.

The Client hereby acknowledges that the shipping agent shall accept liability for shipment of the Products. The Client consequently has no means of redress against TIFLEX, in the event of incorrect delivery of the Products and/or damages to the Products during shipping. Failing express appointment of a shipping agent by TIFLEX, the Client shall appoint any shipping agent of its choice.

4.2. Products sold by TIFLEX to the Client shall travel at the risk and perils of the Client, ex-works from TIFLEX.

Deadlines for departure from the TIFLEX plant are only given by way of a guide and may under no circumstances constitute a commitment to dispatch Products on a given date.

Notwithstanding any stipulations to the contrary accepted in writing by TIFLEX, any delay or partial delivery may not lead to payment of compensation and/or termination of the Contract.

4.3. The Client should examine all Products upon taking possession thereof.

It is incumbent upon the Client, in the event of any delay, shortcoming or issue arising during transportation, to notify reserves on the delivery note and to confirm these in writing to the shipping agent within three days, by recorded delivery letter with acknowledgement of receipt, with a copy being issue to TIFLEX (article L. 133-3 of the Commercial Code). Any contradictory reserves, in style or meaning such as indications "subject to unpackaging" or "subject to inspection" are not valid.

4.4. All other Client claims, concerning apparent defects or concerning the non compliance of Products ordered to the order (notably quantity or incorrect references), in order to be valid, should be made in writing to TIFLEX within eight (8) days following receipt of the Products by the Client. Beyond this period, Products delivered shall be deemed as compliant with the order and no claim concerning apparent vices or the compliance of Products delivered may be considered by TIFLEX. It is incumbent upon the Client to provide any justification as to the reality of defects or non compliance observed. The Client shall allow TIFLEX to observe non compliance and provide a remedy. The Client shall refrain from taking any action itself or calling on any third party for this purpose.

In the event of delivery of Products which are acknowledged by TIFLEX, following verification, as non compliant with the order and/or contractual specifications, TIFLEX hereby undertakes to replace the missing Products and/or to provide a replacement, in the same quantities, of the Product acknowledged as non compliant to the order, or to undertake work to ensure the Product complies with order specifications, with the exclusion of compensation or reimbursement or termination of the order concerned.

Returns may only be undertaken with the prior written consent of TIFLEX. Any return without consent shall not lead to replacement or compliance of the Product. The Client should comply with instructions issued by TIFLEX for Product returns.

Risks during return are accepted by the Client.

4.5. Use or resale by the Client of Products considered as non compliant with an order by the Buyer shall constitute relinquishment of making a claim and relinquish TIFLEX from liability and/or warranty.

4.6. Any claim made by the Client in line with the terms and conditions set forth under the present article shall not lead to suspension of payment for Products by the Client.

4.7 Receipt of the Services shall be undertaken in line with the terms and conditions set forth in the TIFLEX offer and/or Client order duly accepted by TIFLEX.

Notwithstanding any provisions to the contrary as agreed between the Parties, TIFLEX may confer to a third party the performance of its Services.

5. WARRANTY - LIABILITY:

5.1. Products and Services benefit from the warranties appearing in the purchase order as accepted by both parties and/or in the estimate communicated by TIFLEX to the Client and/or which are applied by the Product manufacturer.

In all instances, the liability of TIFLEX is strictly limited, at the choice of the Buyer, to repair or replacement of the Product(s) acknowledges as non compliant or defective by TIFLEX following technical inspection or following written acceptance by TIFLEX.

All Product defects which originate or result from the following are excluded from all warranties and guarantees provided by TIFLEX:

- from a lack of maintenance, supervision or more widely from any handling which does not comply with the written instructions of the Seller and outlined in technical notices and/or product specifications, or default in respect of standards applicable or the rules of the trade;
- from any factor not related to the Product (improper electrical installation, installation or storage in an inadequate environment such as an unusual level of dust, etc.) or any modification or intervention by the Buyer or third party, without the prior written consent of the Seller;

- from normal wear and tear of the Products;
- more widely from damage or accidents attributable in whole or in part to the Buyer or a third party;
- instructions issued by the Buyer to the Seller;
- from any case of force majeure, as defined by legal provisions and interpreted by French case law.

5.2. TIFLEX is under no circumstances whatsoever liable for any indirect and/or immaterial damages whatsoever which may be caused by Products and/or Services, such as notably operating losses, lost profits, orders, or clients, etc.

5.3. In all instances, the liability of TIFLEX is limited solely to direct damages occasioned on the Client and attributable exclusively to the Products and/or Services and to the amount excluding VAT actually paid by the Client for purchase of the Products and/or the supply of Services concerned.

5.4. The Buyer remains solely and exclusively liable for use of the Products supplied by the Seller and their suitability for the intended use.

The Buyer should ensure that its premises and storage conditions are suitable for the due and proper storage of Products and presents all security guarantees imposed by legislation and/or regulations in force. No guarantee is provided in this regard by the Seller.

6. PRICE AND PAYMENT TERMS:

6.1. The price of the Products and Services is fixed by TIFLEX either in its annual price list, or in the offer or estimate issued to the Client by TIFLEX. The term of validity of offers and estimates is that stipulated under article 2.3 hereinabove.

TIFLEX hereby reserves the right to amend its prices at any time.

6.2. Prices applicable are those indicated in the TIFLEX offer or estimate accepted without reserve by the Client, or those appearing in the prices published by TIFLEX and in force as at the date of acknowledgement of receipt of the order by TIFLEX.

6.3. Our prices are understood as exclusive of tax, "Ex Works", with all shipping fees being payable by the Client (including loading, transportation, unloading, customs clearance and insurance costs), as well as specific packaging fees and any taxes, duties, VAT or other amount to be paid pursuant to French or foreign legislation or regulations. Packaging charges are 1% of the amount of goods.

6.4. Notwithstanding any agreement to the contrary between TIFLEX and the Client, invoices are payable by the Client, within thirty (30) calendar days following the invoice issue date.

The terms and conditions in line with which TIFLEX may grant a discount for early payment are indicated on the TIFLEX invoice.

6.5. In the event of any delay in making payment to the Client and in light of the provisions set forth under article L. 441-6 of the Commercial Code, the Client shall be ipso jure liable for payment of a late payment penalty, calculated over amounts due, by the application of four (4) times the legal interest rate in force at the time of issue of the invoice and increased by five (5) percentage points; and a fixed-rate compensation for recovery fees of which the total amount is fixed by decree.

6.6. Whatever the payment method initially agreed between the parties, default in acceptance of any bill of exchange and/or the default in respect of any payment term, and/or the transfer in whole or in part of any activity shall ipso jure lead to all amounts remaining due falling immediately payable for other orders or for any other service whatsoever.

In all of the aforementioned instances, TIFLEX hereby reserves the right to withhold Products sold and not yet delivered and/or to suspend performance of Services in progress, and to ipso jure terminate all pending Contracts without prior notice, or to request advance payment in full for the dispatch of any Products or the continuation of any Services, without prejudice for all other means of redress. The Seller finally reserves the right to refuse any order placed by the Buyer in the event of any change in the legal situation of the Buyer, in particular its financial situation.

Any invoice for which payment is recovered by a debt recovery firm shall lead to application of a fixed rate compensation of fifteen (15)% of the total amount to be paid appearing on said invoice. The Client should also reimburse all legal fees occasioned by the legal recovery of amounts due, and notably fees for ministerial officers and lawyers.

Our drafts or acceptances shall not derogate payment which should be made to the registered office of TIFLEX.

7. RESERVATION OF OWNERSHIP CLAUSE:

TIFLEX HEREBY RESERVES THE ENTIRE OWNERSHIP OF PRODUCTS, OBJECT OF DELIVERIES UNTIL EFFECTIVE RECEIPT OF THE ENTIRE PRICE IN PRINCIPAL AND ANCILLARY AMOUNTS, PURSUANT TO ARTICLES 2367 ET SEQ OF THE CIVIL CODE.

ANY DEFAULT BY THE CLIENT IN RESPECTING PAYMENT TERMS OR ANY PORTION OF THE PRICE MAY LEAD TO IMPLEMENTATION OF THE RESERVATION OF OWNERSHIP CLAUSE, WITHOUT IT BEING NECESSARY TO SERVE NOTICE. PRODUCTS SHALL BE IMMEDIATELY RETURNED TO TIFLEX, AT THE COST OF THE CLIENT.

DEPOSITS PAID SHALL BE RETAINED BY TIFLEX BY WAY OF COMPENSATION.

THE CLIENT IS STRICTLY PROHIBITED FROM USING ANY PRODUCTS FOR WHICH THE PRICE HAS NOT BEEN PAID IN FULL, AS WELL AS RESELLING OR TRANSFORMING SAME PRODUCTS.

ASIDE FOR INCURRING ITS OWN LIABILITY, THE CLIENT HEREBY UNDERTAKES TO IMMEDIATELY NOTIFY TIFLEX OF ANY GARNISHMENT OF THE PRODUCTS OR ANY INCIDENT WHICH PREVENTS IT FROM USING THE PRODUCTS IN FULL (THEFT, DAMAGE, INTERVENTION BY A THIRD PARTY, ETC.).

THESE PROVISIONS SHALL NOT IMPEDE THE TRANSFER OF RISKS OF LOSS AND DAMAGE OF SOLD PRODUCTS, AS WELL AS ANY DAMAGES THEY MAY INCUR.

8. INTELLECTUAL PROPERTY:

8.1. Notwithstanding any provisions to the contrary agreed between the Parties:

- TIFLEX shall retain all intellectual property rights pertaining to its projects, studies and documents of all kinds which may be issued to Clients. These documents should be returned, by the Client, at the first request of TIFLEX.

Designs and models, technology, whether or not patented, expertise and all intellectual property rights pertaining to Products, shall remain the full and entire property of TIFLEX or the proprietors of these rights.

- The Buyer is only granted a personal, non exclusive and non transferrable right of use of these intellectual property rights, limited to use of Products internally within the Client, for France and within the limits of the contractual provisions.

8.2. TIFLEX only guarantees the compliance of specific Products and Services as complying with the technical specifications included within its offer and/or the order placed by the Client and accepted without reserves by TIFLEX.

TIFLEX may not be held liable for the suitability of works, notably pictures, designs and/or engravings which are conferred thereunto for performance of a specific Product with the final use made by the Client.

All design works for specific Products undertaken by TIFLEX, on the basis of models or documents provided by the Buyer, shall only be undertaken under the liability of the Client who expressly guarantees that it is the proprietor or that it holds all intellectual property rights pertaining thereunto and guarantees and holds harmless TIFLEX from any redress or legal action for counterfeit as may be initiated by any third party thereagainst. This is additionally the case for any text or indications which the Clients request be affixed on said works by TIFLEX.

In the event of production mould(s) and/or specific tool(s) on the basis of documents, designs and models provided by the Client, with a view to development of a specific Product, the Client shall confer to TIFLEX a right of use of the intellectual property rights pertaining thereunto, for the purpose of production of said moulds and/or said specific tools.

Notwithstanding any provisions to the contrary as agreed between the parties, moulds and/or specific tools shall remain the sole and exclusive property of TIFLEX, whether or not they are stored on TIFLEX premises, or those of the Client, and are not included within the order price. Within a term of three (3) months following delivery of the Products pertaining thereunto and/or the end of the Services, and failing any written request by the Client to purchase the moulds and/or specific tools within said term, accepted in writing by TIFLEX, pursuant to the financial terms and conditions agreed between the Parties, TIFLEX hereby reserves the right to destroy said moulds and/or specific tools.

9. CONFIDENTIALITY:

9.1. The Client hereby undertakes to protect the secret and confidential nature of the information belonging to and/or received by TIFLEX (hereinafter referred to as "Confidential Information") in the framework of the Contract or prior to conclusion thereof, and to take all necessary provisions so as this not be disclosed to any third parties. The Client hereby undertakes to only disclose Confidential Information to those permanent members of staff directly concerned by these presents, and under its own liability.

9.2. It is hereby understood between the Parties that in the event of termination of the Contract for any reason whatsoever and/or at the first request of TIFLEX, the Client hereby undertakes to destroy or return all Confidential information send thereunto by TIFLEX.

9.3. The commitments taken under the present Article shall remain in force for a term of ten (10) years following the date of signature hereof, notwithstanding any express provisions to the contrary for which provision is made by the Parties.

10. APPLICABLE LAW – JURISDICTIONAL COMPETENCE:

The present General Terms and Conditions are governed by French law.

In the event of any dispute pertaining to the drafting, performance and/or interpretation of the present General Terms and Conditions, Bourg en Bresse Commercial Court (AIN) shall hold sole and exclusive jurisdiction even in the event of multiple defendants or calls for joinder to proceedings, and notwithstanding any rule of conflicting legislations or jurisdictions which may be applicable.



CS 30200 - 01450 PONCIN

France : Tél. +33 (0) 4 74 37 33 83 - Fax +33 (0) 4 74 37 33 70
sin@tiflex.fr - www.tiflex.fr

International : Tél. +33 (0) 4 74 37 33 80/97 - Fax +33 (0) 4 74 37 33 62
international@tiflex.fr - www.tiflex.com