
Screen

582-Series Screen Inks

582-Series is a UV-radiation curing ink for screen-printing. It is suitable for flash curing and conventional UV-curing. Main applications are outdoor advertising posters and displays. The ink has good opacity, mild odour, high gloss, high flexibility and it is very easy to use. Mild odour and ease of use are the main reasons for the series popularity. Main application is for paper, board and corrugated board.

ADHESION: 582-series can be used on paper, board and corrugated board.

FLEXIBILITY: 582-series will meet the rigorous demands of the display market for flexibility. On suitable materials several layers of 582-series inks can be cut or bend without cracking or flaking. Care must be taken not to overcure the inks as embrittlement may occur.

COLOUR RANGE: 582-series colour range consists of 11 standard opaque shades and 2-pack silver and gold shades. Two 4-colour sets, 582- euroscale standard semigloss and 587- high opacity and density version for backlighted materials. And a special DP- waterbased euroscale 4-colour set for printing corrugated board with low coating.

See table overleaf for colour range.

PANTONE: Pantone formulations are available for request.

CURE SPEED: 582-series colours can be expected to give adequate cure at up to 40-45 m/min on suitable substrates using a 2 lamp 80 watt/cm UV curing unit when printed through a 165 threads/cm mesh. Cure speed is dependant upon a number of factors including film thickness, opacity, the number and type of lamps used and also the type of materials being printed.

POST CURING: All UV inks and varnishes are subject to a degree of post curing after UV exposure. In certain circumstances this reaction can adversely affect both intercoat adhesion and flexibility. Care should therefore be taken to ensure that prints are not overcured.

SCREEN STABILITY: UV curing inks will only dry under the influence of ultra violet radiation. Under suitable lighting conditions and if protected from stray UV light from curing equipment, they have indefinite screen stability.

STOCK: 582-series inks have been designed to print on posters and boards. If printed on new before unknown material, it is always advisable to check the performance of these inks on the actual batch of stock to be used before commencing a print run.

PRINTING MATERIALS: High quality stencil materials such as Ulano QX-3 or similar stencils will enhance the print quality normally expected from using 582 inks.

Fine synthetic mesh such as Sefar should be used. A mesh count between 150-165 threads/cm will ensure correct ink deposits and full cure, flexibility and adhesion.

THINNING: 582-series inks are supplied ready for use and thinning is not recommended.

This information has been carefully compiled from experience gained in the laboratory and under commercial conditions. However, the product's performance and its suitability for the customer's purpose depend on the particular conditions of use and the material being printed. We recommend that customers satisfy themselves that each product meets their requirements in all respects before commencing a print run. Since we cannot anticipate or control the conditions under which our products are used it is not possible to guarantee their performance. All sales are subject to our standard terms and conditions of sale.

We would point out that the information contained in this leaflet is only a recommendation and may need to be altered to suit the conditions and efficiency of the equipment employed. SunChemical Screen products are not designed for use in conjunction with those of any other ink maker or similar supplier unless agreed in writing.

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WASHING UP: 503-00700 or 503-01020 washing agents are recommended for washing up.

COVERAGE: Up to 80m²/kilo can be achieved with 582-series inks but mileage will vary according to grade of mesh, stencil thickness, machine type etc.

SHELF LIFE: 582-series inks should be stored in sealed black polythene containers at temperatures between 5-30 degrees C (40-90 F). They have a shelf life of 12 months but can remain usable for longer periods depending on storage conditions. Except waterbased DP-colours which have shelf life of 6 months.

HANDLING: The raw materials in 582-series inks are strictly assessed by independent laboratories for skin irritation and toxicity effects. As a result, the inks are described as mild to moderate skin irritants. In practice this means that irritation is of low order and the inks are well within recognised safety limits.

As a sensible precaution, we recommend that any ink transferred to the skin is removed immediately by washing with soap and excess amounts of water.

ADDITIVES: Washing agent 503-00700/503-01020
Base 582-95000

4-COLOUR SERIES: Yellow 582-25050
Magenta 582-35050
Cyan 582-45050
Black 582-75050

SPOT COLOURS: Yellow 582-20000 Warm red 582-30000
Rubine red 582-30100 Rhodamine red 582-30600
Reflex blue 582-40000 Process blue 582-40100
Green 582-50000 Black 582-70000
Purple 582-80000 Violet 582-80100
White 582-90100 Silver 582-99103
Gold 582-UV871-UV875

587- 4-COLOUR: Yellow 587-25000
Magenta 587-35000
Cyan 587-45000
Black 587-75000

DP- 4-COLOUR: Yellow DP-1650F
Cyan DP-1651F
Magenta DP-1652F
Black DP-1653F

PACKING: 5 kg and 10 kg plastic pail

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