

Screen printing ink
SERIES 242

A silk matt finish ink, through mixing the basic colours series 275 with binding component series 242-07 gives good coverage and mileage, suitable for interior use for many functional and decorative applications on various Polypropylen

Substrates

Suitable for a wide range Polypropylene based substrates and Styropore.

Because of the diverse range of material compositions it is imperative that the printer carries out trials to establish ink suitability.

Uses

Suitable for most point-of-sale uses on Polypropylene. The quality raw materials used ensure that series 275 gives good adhesion with a high scuff-resistant finish, they are also well suited for most finishing processes (cutting/creasing/embossing) Series 275 is designed for good ink removal and is problem free for re-cycling

Properties

This series contains a mixture of 20% by weight of binder series 242-07 and 80% of the basic colours of series 275, which makes it for hand, flat bed as well as cylinder printing and ensuring good self-solvency of inks and open mesh characteristics with fast on-substrate drying.

Additives

For optimum printing 10-20% (by weight) of thinners series 200-017 or retarder series 200-018 should give consistency of print and good working viscosity under normal circumstances. For more extreme conditions please refer to the technical leaflet 200-“Additives programme product group 200” .

Care should be taken when using additives to ensure that stability is not compromised.

Colour shades

The 275/242 ink series is heavy metal free according to Euronorm 71, part 3, monopigmented and suitable for matching to MS-colour mixing system. Colours available:

275-1000	Lemon yellow
275-1100	Yellow (light)
275-1200	Yellow (reddish)
275-2000	Orange
275-3000	Carnation red
275-3100	Transparent red
275-3200	Transparent dark red
275-3300	Transparent magenta
275-4000	Transparent violet
275-5000	Transparent blue
275-6000	Transparent green
275-7000	Red / brown

275-8000	Mixing black
275-9000	Mixing white
275-0900	Ultramarine (non-fade properties)

The transparent inks are suitable for colour adjustment whilst keeping their brilliance of colourmatches and are also suitable for tinting with metallic pigments.

According to the MS Mixing system, in use the inks are made up of 80% by weight of base colour and at least 20% of binding series 242-07

Standard inks according to colour range ST 31 brightshades (shade 08-38) fluorescent colours are obtainable according to the colour chart ST

Metallics:	
242-100	Silver (rub proof)
242-101	Britannia silver
242-102	Light gold
242-103	Middle gold
242-105	Rich gold
242-106	Copper

Various inks can be made to customer specification, these include metal-free bronze as well as the ST recipes.

242-200	Pearl gloss silver
242-02299	Course silver

All basic colours series 242 can be made in matt on request.

Trichromatic colours:	
242-0950	Cyan
242-0960	Yellow
242-0970	Magenta
242-0980	Deep black

And blending pastes:	
242-04	Extender base
242-06	Retarder paste
242-07	Binder paste
To expand the special uses there are also different standard lacquers to choose from	
242-05	Silk lacquer
242-05/MT	Matt lacquer

All the above colours conform to EN 71, part 3 (safety of toys, migrations of various elements) and are heavy metal free. The inks all have a blue wool rating of 6-8 (DIN 16525) with the exception of fluorescent and ultramarine in the MC-Colour-system 0900 and care should be taken

with white or clear lacquer discolouration under strong lighting conditions.

Drying

The solvent composition of universal thinner series 200-017 is specially formulated to stay open in the screen so retarders are not usually necessary, but the ink still has quick drying properties.

Meshes

The 242 series is suitable for use with all usual meshes and capillary films. But nitro-cellulose stencil materials should be avoided .

Cleaning

The 242 series can be cleaned down with most usual solvent-based cleaners but we recommend universal cleaner series 200-BRS & 200-URS

Storage

Under normal storage conditions (low temperature changes 20-35C, humidity 20-70%) the ink can be stored for up to 1 year (6 months for metallic inks) without deterioration of ink properties.

Packaging

Available in standard 1kg and 5kg polyethylene tubs that are suitable for re-cycling after removal of ink remnants. The unhardened ink requires special waste disposal (wastekey 55509 in Germany, special waste X (1640) Switzerland)

MS – BASIC COLOURMATCH SYSTEM

Based on the MS base colours you can compile the following ink order

Series 275 (previously series 175!)

MS – basic colours series 275 + 20% weight series 275- 07

Series 242 (previously series 742!)

MS – basic colours series 275 + 20% weight series 242-07

Precautionary measures

Read material safety data sheet prior to processing.

The material safety data sheets according to OSHA form contain indication of hazardous ingredients, TLV-level and instructions for precautions when processing, handling and storing as well as first aid. The information given in the MSDS refers to processing as described in this technical leaflet. The statements in our leaflets have been made to the best of our knowledge and are given without any obligation. They serve to advise our business associates, **but it is absolutely necessary** to make your own printing tests under local conditions, with regard to the intended purpose prior to starting the printing job. In case of any doubts please contact our technical advisors. The application, use and processing of the products delivered by us are beyond our control. This is subject to your responsibility and there is no liability or guarantee on our part.

In case of justified complaints the manufacturer can only be made liable for the countervalue of the used ink system.

Addition of not mentioned products or competitors products are on your own risk and releases Printcolor Screen Ltd. of any later demands, especially in cases of damage and loss caused by alien products.

All former leaflets are no longer valid.

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