

Screen printing ink

SERIES 275

Universal screen printing ink for paper and cardboard for decorative applications

A silk finish ink, through mixing with binding component series 275-07 gives good coverage and mileage, suitable for interior use for many graphic applications on various paper and board substrates.

Substrates

Suitable for a wide range of wood based substrates such as box board, pulp board and papers. 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 paper and box-board, poster printing, and packaging. 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 275-07, 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 universal thinners series 200-17 should give consistency of print and good working viscosity under normal circumstances. For more extreme conditions please refer to the technical leaflet 200-“screenprinting additives” Care should be taken when using additives to ensure that stability is not compromised.

Colour shades

The 275 ink series is heavy metal free, 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 Mixingsystem, in use the inks are made up of 80% by weight of base colour and at least 20% of binding series 275-07

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

- Metallics:**
- 275 – 100 Silver (rub proof)
 - 275 – 101 Britannia silver
 - 275 – 102 Light gold
 - 275 – 103 Middle gold
 - 275 – 105 Rich gold
 - 275 – 106 Copper

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

- 275 – 200 Pearl gloss silver
- 275 – 02299 Course silver

The following matt inks are standard to the range and the other basic colours can be made in matt on request

- 275 – 8000/MT matt black
- 275 – 9000/MT matt white

- Trichromatic colours:**
- 230 – 0950 Cyan
 - 230 – 0960 Yellow
 - 230 – 0970 Magenta
 - 230 – 0980 Deep black

- And blending pastes:**
- 230 – 04 Extender base
 - 275 – 06 Retarder paste
 - 275 – 07 Binder paste

To expand the special uses there are also different standard lacquers to choose from

- 275 – 05 Silk lacquer
- 275 – 05/MT Matt lacquer

If the inks in series 275 are for exterior use we recommend overprinting with a special lacquer from the series 85 – 5700 for best non-fade properties.

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

Cleaning

The 275 series can be cleaned down with most usual solvent-based cleaners but Printcolor AG 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 2 years (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 basecolours you can compile the following ink order

Series 275 (previously series 175!)

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

Series 242 (previously series 742!)

MS-series 277+ 20% weight series 272-07

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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