

One-component solvent based ink suitable for untreated and pre-treated polypropylene.

Satin gloss, good opacity, slow drying, applicable for screen and pad printing

Field of Application

Substrates

MJKA is particularly suited to print onto:

- Pre-treated or untreated polypropylene (PP)

Generally speaking, the substrates could be printed with MJKA ink without flame treating, corona or primer applied. Owing to the production process, some polypropylene materials may show lubricant residues on the surface which can result in reduced adhesion of the ink film. In this case, please check if printing without pre-cleaning is possible.

Since all the print substrates mentioned may be different in printability even within an individual type, preliminary trials are essential to determine the suitability for the intended use.

Field of use

MJKA is a satin gloss and slow drying screen/pad printing ink, excellent adhesion makes the product able to be printed on a variety of pre-treated/ untreated PP substrates.

MJKA is suitable for PP application, Pigments of high fade resistance are used for MJKA ink series. After proper and thorough drying, the ink film shows outstanding adhesion as well as rub, scratch, and block resistance, and is also resistant to chemicals. The ink film features a very high flexibility.

Characteristics

Drying

The drying characteristics can be adjusted with auxiliaries to the specific application (screen or pad printing). The following drying conditions can be assumed:

Pad Printing: 120°C /30s or 80°C /120s

Screen Printing: 120°C /30s or 80°C /120s

Since the characteristic of the resin, air drying is not recommended after printing.

Please note that the drying speed slows down when shades are overprinted and hardener is added.

The drying conditions mentioned above vary according to substrates, depth of cliché, ink film thickness, temperatures, and the auxiliaries used. An extended drying time is generally necessary in the case of multi-color printing or printing onto front and reverse side.

Use as 2-component ink

Depending upon the substrate and the requirements, hardener can be added to the ink before printing.

When using hardener, the processing and curing temperature must not be lower than 15°C as irreversible damage can occur. Please also avoid high humidity for several hours after printing as the hardener is sensitive to humidity.

Pre-reaction time

It is recommended to allow the ink/hardener mixture to pre-react for 15 minutes.

Pot life

The ink/hardener mixture is chemically reactive and must be processed within 6 h (referred to 20-25 °C and 45-60 % RH). If the mentioned times are exceeded, the ink's adhesion and resistance may be reduced even if the ink characteristics show no noticeable change.

Stress resistance

After proper and thorough drying, the ink film shows outstanding adhesion as well as rub, scratch, and chemical resistance.

With hardener, the mentioned resistance will be increased furtherly.

Range

MJKA 920	Lemon
MJKA 924	Medium Yellow
MJKA 926	Orange
MJKA 930	Vermilion
MJKA 936	Magenta
MJKA 952	Ultramarine Blue
MJKA 956	Brilliant Blue
MJKA 960	Blue Green
MJKA 962	Grass Green
MJKA 970	White
MJKA 980	Black
MJKA 910	Overprint Varnish

Auxiliaries

TSP 101	Thinner (15%-20%)
TS 104	Thinner (15%-20%)
TR 102	Retarder (15%-20%)
MH 4	Hardener (10%, pot life 4-6H)
AE 1	Antistatic Paste (0 -15%)
AP1	Primer
NT 1	Cleaner

Hardeners are sensitive to humidity and are always to be stored in a sealed container. Shortly before use, the hardener must be added to the ink and stirred homogeneously. The mixture ink/hardener is not storable and must be processed within pot life.

Thinner is added to the ink/hardener mixture to adjust the printing viscosity. The choice of thinner and the amount added are highly depending on the local climate and the printing speed.

Printing Parameters

- Mesh: 90T~165T
- Clichés: 18~25µm

Shelf Life

Shelf life depends very much on the formula/reactivity of the ink system as well as the storage temperature. for

an unopened ink container if stored in a dark room at a temperature of 15-25°C, the shelf life as below:

- Basic shades : 2 year
- Antistatic Paste/Primer : 3.5 years
- Hardener : 2 years
- Thinner and cleaner : 3 years

Note

Our technical advice whether spoken, written, or through test trials corresponds to our current knowledge to inform about our products and their use. This is not meant as an assurance for certain properties of the products nor their suitability for each application. You are, therefore, obliged to conduct your own tests with our supplied products to confirm their suitability for the desired process or purpose. The selection and testing of the ink for specific applications is exclusively your responsibility. Should, however, any liability claims arise, they shall be limited to the value of the goods delivered by us and used by you with respect to any and all damages not caused intentionally or by gross negligence.

More information

The above technical information is only for MJKA, and more innovative products information will be updated in the future.

German quality, Made for China!

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Marabu