

easyCURE MP

Series 566

UV-Universal Ink, highly glossy

The Series 566 easyCURE MP is an universal, fast curing and highly glossy UV-Screen Printing Ink which covers a broad variety of substrates and printing tasks.

Substrates

Series 566 easyCURE is among others suitable for the following substrates:

- PVC-self-adhesive films and rigid PVC
- Polystyrene and ABS
- Pre-treated Polypropylene, corrugated PP-plates (f. e. Priplak®)
- PET-G and PET-GAG, pre-treated PET-foils
- PMMA (suitability-test is recommended)
- Paper and Board

The above mentioned substrates can also vary within one brand so that pre-tests are always necessary.

Application areas

Series 566 easyCURE MP is suitable for printing graphic designs for indoor and outdoor application, as f. e. Posters, POP, Displays, Labels and so on.

Properties

This modern UV-Ink system is highly glossy, very reactive as well as extraordinarily flexible in order to assure the continuation process like cutting, stamping etc.. As standard this ink Series is offered in the easyMIX Mixing Color System, containing 11 mono pigmented base colors. The EM-Inks are based on light fast and brilliant pigments, which guarantee an outdoor resistance for about two years in vertical exposure (light fastness 6-8, "Blue wool scale", DIN 16525). The system allows easy color matching and reproduction of common references as Pantone, RAL, etc.. All inks in the Series 566 easyCURE MP are free of toxic heavy metals according to EN 71, Part 3.

Series 566 easyCURE MP is ready to use, but should be well stirred before starting the printing process.

Curing

Series 566 easyCURE MP is a fast curing UV-Screen printing ink. A suitable UV-dryer with two medium pressure mercury lamps (Power of 2 x 120 W/cm) will cure the easyCURE MP at a belt speed of 30 m/min or energy of 200-250 mJ/cm² (250-410 nm, max. 365 nm). For multiple printing we recommend graduated energy, because the needed energy level may vary depending on the ink layer thickness and/or color. Series 566 easyCURE MP is post curing what will lead to better adhesion properties and an increase of the resistances, but should show sufficient tape adhesion after the substrate has been cooling down to room temperature ("Cross hatch test GT0", DIN 53151/ASTM D 3359).

Resistances

When cured under above mentioned conditions the applied ink layer has good tape adhesion, scratch- and block resistance. Series 566 easyCURE MP is resistant against household cleaning agents, alcohol and petrol. The resistances of the white ink compared to other colors are normally slightly lower due to the formulation of the ink.

Color Selection

The easyMIX Color Mixing System contains 11 EM-Base colors and additional transparent varnish:

Series 566-EM/07	EM-Varnish	Series 566-EM/3307	EM-Magenta
Series 566-EM/1007	EM-Light Yellow	Series 566-EM/4007	EM-Violet
Series 566-EM/1207	EM-Dark Yellow	Series 566-EM/5007	EM-Blue
Series 566-EM/2007	EM-Orange	Series 566-EM/6007	EM-Green
Series 566-EM-3007	EM-Red	Series 566-EM/8007	EM-Black
Series 566-EM/3207	EM-Dark Red	Series 566-EM/9007	EM-White

The ink Series is completed by the opaque Standard Colors

Series 566-00	ST-White
Series 566-33	ST-Black

Characteristics

Thinner	: Not necessary, may be 5% Series 500-017
Mesh	: 120-34 up to 150-31 PET 1500
Curing	: 200-250 mJ/cm ² (250-410nm, max. 365nm)
Substrates	: PVC, film and rigid; Polystyrene and ABS; pre-treated Polypropylene and PP-materials as f. e. Priplak®, PET-G and PET-GAG, PMMA, Paper and Board
Outdoor / Indoor application	: Indoor; medium term outdoor
Continuation process	: Normal (like cutting, stamping etc.)
Overprintability	: Complete color range of the Series 566
Delivery Time	: On stock
Quantities	: 5 kg, 25 kg

These data base on laboratory tests and practical experiences. Our application-technical consulting service is provided to the best of our knowledge but can only be a non-binding advice and does not replace any own tests. In case of any doubts we recommend urgently to read the according Safety Data Sheet, to carry through own tests under your specific laboratory conditions and / or to contact our technical advisors. Use, application and processing of the delivered products are beyond our control and lie therefore exclusively within your responsibility; we can not be made liable for the same.

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.