Maraplak MM

Vers. 5
2014
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Screen Printing Ink for paper, paperboard, cardboard, hardboard, chromo papers, canvas, wax

Deep matt, high opacity, brilliant colour shades, fast drying, suitable for placarding

Field of Application

Substrates

Maraplak MM is suited for the following substrates:

- Offset and art papers
- Paperboard, cardboard, and chromo papers
- Hardboard, wood
- Styrofoam
- Canvas
- Wax candles

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

Maraplak MM is ideal for printing serigraphs and posters, as well as anti-glare interior decorations like pictures or displays. Other application possibilities include printing embroidery patterns on canvas or decorating wax candles.

MM can also be processed with a spray gun, but preliminary trials are necessary for this process. In order to avoid surface irregularities, we recommend to filter the thinned ink (25 µm screen) before processing.

Characteristics

Ink Adjustment

Maraplak MM must be stirred homogeneously before printing.

Drying

Physically fast drying; after approx. 20 – 30 min drying at 20° C ambient temperature, the next ink layer can be applied; stackable after 60 sec at 50°C in a tunnel dryer.

The times mentioned above vary according to the thickness of the ink film and type of hardener used, resp. if hardener has been added, vary as to the drying conditions and auxiliaries used. Please note that the drying speed slows down if shades are overprinted.

Fade resistance

Pigments of good fade resistance are used for the Maraplak MM range, allowing short-term outdoor use.
The pigments used are non-resistant to plasticizers and solvents.

Stress resistance

After proper and thorough drying, the ink film is suitable for placarding. Due to the matt ink finish, the basic shades are less rub-resistant than glossy screen printing ink types.

For maximum rub and abrasion resistance, especially for double-sided printing in a stack, we recommend to overvarnish with printing varnish MM 902, which is less matt.

Range

Basic Shades

020	Lemon
021	Medium Yellow
022	Yellow Orange
031	Scarlet Red
033	Magenta
035	Bright Red
036	Vermilion
055	Ultramarine Blue
058	Deep Blue
059	Royal Blue
067	Grass Green
068	Brilliant Green
070	White
073	Black

High Opaque Shades

170	Opaque White

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Further Products

409	Transparent Base
902	Bronze Binder

Opaque white 170 is less flexible owing to the higher amount of pigments.

All shades are intermixable. Mixing with other ink types or auxiliaries must be avoided in order to maintain the special characteristics of this ink.

All basic shades are included in our Marabu-ColorFormulator (MCF). They build the basis for the calculation of individual colour matching formulas, as well as for shades of the common colour reference systems HKS®, PANTONE®, and RAL®. All formulas are stored in the Marabu-Color Manager software.

Metallics

Metallic Powders

S 181	Aluminium	17%
S 182	Rich Pale Gold	25%
S 183	Rich Gold	25%
S 184	Pale Gold	25%
S 186	Copper	33%
S 190	Aluminium, rub-resistant	12.5%

These metallics are to be added to MM 902 in the recommended amount, whereat the addition may be individually adjusted to the respective application. We recommend preparing a mixture which can be processed within a maximum of 8 h since metallic mixtures usually cannot be stored. Due to their chemical structure, the processing time of mixtures with Pale Gold S 184 and Copper S 186 is even reduced to 4 h.

Owing to the bigger pigment size of Metallic Powders we recommend the use of a coarser fabric like 100-40. Shades made of Metallic Powders are always subject to an increased dry abrasion which can only be reduced by overvarnishing.

All metallic shades are displayed in the Marabu "Screen Printing Metallics" colour chart.

Auxiliaries

MMV	Thinner	10-15%
UR 3	Cleaner (flp. 42°C)	
UR 4	Cleaner (flp. 52°C)	
UR 5	Cleaner (flp. 78°C)	
SV 1	Retarder	
SV 9	Retarder, slow	
ST 1	Extender Base	

Thinner MMV is added to the ink to adjust the printing viscosity. For slow printing sequences and fine motifs, it may be necessary to add Retarder SV 1 or SV 9 to the thinner. For an additional thinning of the ink containing retarder, only pure thinner should be used.

The cleaners UR 3 and UR 4 are recommended for manual cleaning of the working equipment. Cleaner UR 5 is recommended for manual or automatic cleaning of the working equipment.

Printing Parameters

All types of commercially available fabrics and solvent-resistant stencils can be used.

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 utilised by you with respect to any and all damages not caused intentionally or by gross negligence.

Labelling

For Maraplak MM and its additives and auxiliaries, there are current Material Safety Data Sheets available according to EC regulation

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1907/2006, informing in detail about all relevant safety data including labelling according to the present EEC regulations as to health and safety labelling requirements. Such health and safety data may also be derived from the respective label.

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