AUTOMARK MPL
Solvent Screen Ink For: Washed Aluminum • Polyester and Vinyl Coated Metals • Most Coated Metals

Features
- Specifically Designed for Automotive Interior Metal Constructions
- Excellent Forming Capabilities
- Excellent Printability and Screen Stability
- Bright, Clean Colors
- Resistant to Yellowing with Multiple Bakes
- Superior Color Stability

Description
Thermosetting Ink for Formed Metal Panel Automotive Constructions

Thinning
Stir well before every use. Viscosity reduction can be accomplished using the MPL-TH Thinner. Suggested maximum level is 30% reduction by weight.

Flow Control
Automark MPL is a flow control free ink system. MPL is compatible with a variety of non-silicone flow controls, most of which will produce a defect free film. A non-silicone flow thinner, MPL-FLT, is provided for improving printability in all MPL inks. Its use is highly recommended when screen printing these products. For best results, MPL-FLT is designed to be added at 1-6% by weight of ink.

Mesh and Squeegee
Automark MPL prints well through 196 to 305 (77 to 120/cm) monofilament polyester or stainless steel fabrics. The ideal squeegee durometers are from 60 to 80 and solvent resistant.

Stencils
Stencil materials must be solvent resistant. Xtreme AST-210, Xtreme AST-220, Dirasol 911, SuperCoat 915, SuperCoat 916 and SuperCoat 917 dual cure, or Dirasol 132 one pot direct emulsions are recommended to give the highest print quality and stencil durability. Solvent-adhered stencil films should not be used with Automark MPL.

Special Matches
Special colors can be supplied against prints, wet ink, PANTONE® numbers, or other Fujifilm Sericol standard colors.

Color Availability
The Automark MPL color range includes standard printing colors as well as matching system colors. This color range includes some transparents as well as opaque pigments (where appropriate). All pigments have suitable lightfastness and heat stability to pass most automotive metal appliqué specifications.

Automark MPL toners are single pigment inks that can be mixed in any proportion. All toners are glossy when blended.

Blending Colors
- MPL-010  GS Yellow
- MPL-014  Yellow RS
- MPL-020  Orange
- MPL-030  Red YS
- MPL-031  BS Red
- MPL-039  Violet
- MPL-040  BS Green
- MPL-050  Blue GS
- MPL-052  RS Blue
- MPL-233  Intense RS Blue
- MPL-301  Black
- MPL-311  Opaque White
- MPL-260  Transparent Red YS
- MPL-265  Transparent BS Red
- MPL-SB  Shading Black

Halftone Colors
- MPL-IHY  High Intense H/T Yellow
- MPL-IHR  High Intense H/T Red
- MPL-IHB  High Intense H/T Blue
- MPL-IHK  High Intense H/T Black

Thinners and Clears
- MPL-MX  Mixing Clear
- MPL-OP  Overprint Clear
- MPL-MOP  Matte Overprint Clear
- MPL-HTX  Halftone Extender Base
- MPL-TH  Thinner
- MPL-FLT  Flow Thinner
- MPL-FLX  SP Flexibilizer
- MPL-HDR  Hardener
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Co-Use with Other Inks
It is not recommended that Automark MPL be intermixed with any other UV or solvent-based ink systems.

Drying
Automark MPL inks are thermo-setting and require a minimum substrate temperature of 340°F (170°C) for proper cure. Automark MPL will not air dry.
When using a batch oven, Automark MPL will cure at 340°F to 365°F (170°C - 185°C) in 15 to 20 minutes. In high temperature conveyor ovens, Automark MPL will cure at 360°F to 450°F (182°C - 232°C) in two to four minutes.
All cure temperatures are dependent on gauge and type of metal, ink film thickness, as well as type and condition of the oven being used. Caution should be used when curing Automark MPL at temperatures above 400°F (204°C). Excessive immediate high temperatures without adequate air flow may result in a surface cure, demonstrated by a matte or slight texture to the ink film surface.

Coverage
Standard line colors should yield coverage of 1,800 to 2,400 square feet/gallon (45 to 57 m²/liter) depending on film thickness.

Wash Up
Wash up on press with Xtend™ press washes and after the production run with Xtend™ ink degradents.

Outdoor Use
Automark MPL Overprint Clear will enhance color retention. Therefore, in order to achieve adequate durability an Overprint Clear must be used.

Pre-Production Tests
It is strongly recommended that all substrates be tested before use as supposedly similar substrates can vary between manufacturers and even between different batches from the same manufacturer.

END-USER MUST DETERMINE SUITABILITY OF THIS PRODUCT FOR THE INTENDED USE PRIOR TO PRODUCTION.

Metallcs
The Mixing Clear (MPL-MX) is recommended for use with all metallic powders. Blending colors can be used to shade the metallic as needed. The viscosity of the MPL-MX offers good powder suspension and very good mixed shelf life. Please check with the manufacture of the powder for appropriate percentages to use.

Due to the possibility of chemical changes after mixing, it is recommended that all metallic shades be mixed fresh daily.

Storage
Containers should be tightly closed immediately after use. At the end of long printing runs, surplus ink from the screen should be disposed of. Refer to Material Safety Data Sheet (MSDS) for materials and conditions to be avoided.
In the interest of maximum shelf life, storage temperatures should be between 50°F (10°C) and 77°F (25°C). When stored under these conditions the maximum shelf life is shown by the use by dates, which are clearly marked on all ink containers.

Safety and Handling
Refer to MSDS for safety, handling, and waste disposal information.

The information and recommendations contained in this Technical Data Sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason, our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Technical Data Sheet out of date and users are requested to ensure that they follow current recommendations.