AUTOMARK APL
Solvent Screen Ink For Panel Automotive Constructions

Features

• Specifically Designed for Automotive Industry Constructions
• Consistent Ink Viscosity for All Blending Colors
• Excellent Opacity / Bright Clean Colors
• Superior Color Stability
• Safe, Low Temperature, Jet Drying
• Clean Transparent Shades for LED or Window Applications

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

Note: The addition of retarder will significantly increase the dry time.

Mesh and Squeegee
Automatic APL 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
Stencils materials must be solvent resistant. 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 APL.

Drying
It is important that Automark APL be thoroughly dried for best performance. Automark APL should not be air dried.

Properly thinned, Automark APL must be jet dried at no less than 160°F (70°C) for 5 minutes.

When the APL-RT is used as a reducer, a dry time of 180°F (80°C) for 5 minutes is suggested. The retarder requires this temperature to properly dry.

Note: As multiple layers of ink are printed over each other, dry times will increase.

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.

Pre-Production Test
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. Certain plastics may be impregnated with lubricants that, like plasticizer migration, may impair adhesion and block resistance, even a considerable period after printing. Other plastics can become brittle or caused to curl after printing.

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

Co-Use with Other Inks
It is not recommended that Automark APL be intermixed and/or inter-printed with any other UV or solvent-based ink system.

Color Availability
The Automark APL color range includes standard printing colors as well as matching system colors. This color range includes transparent as well as opaque pigments (where appropriate), which allows a variety of backlit and first-surface colors to be matched. All pigments have suitable lightfastness and heat stability to pass most automotive interior appliqué specifications.

Automark APL toners are single pigment inks that can be mixed in any proportion. All toners are glossy when blended. If gloss reduction/diffusion is desired, use the APL-DX Diffuser Clear as required.

Special Matches
Special colors can be supplied against prints, wet ink, PANTONE® numbers, or other Fujifilm Sericol standard colors.
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Standard Colors
- APL-233 Trans. R S Blue
- APL-260 Trans. Y S Red
- APL-265 Trans. B S Red
- APL-301 Opaque Black
- APL-312 Opaque White
- APL-DBC Dye Base Clear
- APL-DX Diffuser Clear
- APL-GB Gloss Black
- APL-HTX Halftone Extender

Matching System
- APL-010 G S Yellow
- APL-014 R S Yellow
- APL-020 Orange
- APL-030 Y S Red
- APL-031 B S Red
- APL-035 Magenta
- APL-039 Violet
- APL37704 B S Green
- APL-041 Y S Green
- APL-050 G S Blue
- APL-052 R S Blue
- APL-MX Mixing Clear
- APL-SB Shading Black
- APL-TW Tinting White

Thinners/Retarders
- APL-TH Thinner
- APL-RT Retarder

Reducers/Modifiers
- APL-FC Flow Control

Matched Metallics
- Automark APL Mixing Clear is recommended for use with metallic powders. Suggested ratios of powder and Mixing Clear are 8% by weight of silver powder and 20% by weight of gold powder. It is recommended that fresh metallics be mixed daily to prevent color shift of the finished mix.

Dye Based Clear
- The Automark APL-DBC (Dye Based Clear) is designed to be the foundation vehicle for customer-supplied colorant dyes used when printing LED’s and/or panel windows. APL-DBC is Silicone/Flow control free, so the printer can add preferred flow control additives. Dyes may be dissolved directly into the DBC, or may be dissolved in a solvent first, then added as a solution. Solvents used in the DBC are quite aggressive, and will hold dyes in solution for a reasonable amount of time. However, no solvent/dye solution is indefinitely stable.

The APL Dye Based Clear should be used with the APL-FC (Flow Control), allowing customers to achieve desired appearance clarity and printability properties. APL-FC flow control should be added in increments of ½ percent by weight, and must be power mixed. APL-FC is a silicone, and will increase the internal haze of the clear, so it should be used sparingly.

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.