

POXI-DRY

Multipurpose Epoxy Ink for a Variety of Demanding Substrates

Features

- ▶ Exceptional Resistance to Heat, and Industrial Products
- ▶ High Gloss Finish
- ▶ Excellent Adhesion Range
- ▶ Resistant to Mirror Silvering Process
- ▶ Pad Printable

Substrate Application

Aluminum and Steel

Brass and Copper

Many other Coated and Uncoated Metals

Baked Enamel Metal Coatings

Glass

Melamines (“Formica”)

Ceramics

Flame Treated Polyethylene and Polypropylene

Phenolics

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Thinning

Stir well before every use. Poxi-Dri should be thinned 5% to 10% with PD-960 Thinner. For hot shop conditions or slow printing use PD-980 Retarder.

Mixing

Poxi-Dri inks are supplied in two parts (base and catalyst) and packed separately. Before printing, estimate the amount of ink required for use during a 6 to 8 hour period. Mix ink and catalyst thoroughly before adding any thinners. Thoroughly mix the ink and catalyst together in the following ratios:

Poxi-Dri Inks	80% by weight
Poxi-Dri Catalyst	20% by weight

Catalyzed ink should be consumed within 6 to 8 hours of mixing under most conditions. Excess inks should be disposed of properly.

Mesh

Poxi-Dry prints well through 196 to 305 (77 to 120/cm) monofilament polyester fabrics.

Stencils

Stencil materials must be solvent resistant. Dirasol 911, SuperCoat 915, and SuperCoat 916 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 Poxi-Dry.

Drying

Poxi-Dri dries by solvent evaporation combined with a chemical reaction between the base and catalyst. Poxi-Dri will jet dry in 30 seconds @ 180°F. It will air dry to touch in 15 to 30 minutes.

At room temperature, full chemical resistance and adhesion are not fully developed for at least 72-96 hours after printing. Adhesion will be improved and curing time reduced considerably if Poxi-Dri is dried at elevated temperatures.

Coverage

Standard colors should yield 1100 to 1500 square feet/gallon (26 to 35 m²/liter) when thinned 10% and printed through 280 (110/cm) monofilament polyester fabrics.

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 which, 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.

Adhesion

Poxi-Dri inks possess excellent adhesion over a wide range of difficult metal and ceramic surfaces including the following: Aluminum, copper, brass, tin, steel, and most of their alloys. Ceramics, glass, enamel, Formica, flame treated polyethylene, and polypropylene.

Poxi-Dri also has excellent adhesion to most baked enamel surfaces and typically overcomes the ink repellent effects of silicones and waxes often found in baked enamel surfaces.

Outdoor Use

Poxi-Dri inks are not recommended for use in applications that involve prolonged outdoor exposure.

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Product Resistance

Once Poxi-Dri inks are fully cured, they possess exceptional resistance to most common chemicals, grease, cosmetics, detergents, and many household products. Because of their excellent heat resistance, Poxi-Dri inks are suitable for many laminating applications.

Color Availability

The Poxi-Dri color range includes standard printing colors.

Special Matches

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

Standard Colors

PD-150	Primrose Yellow	K-91667
PD-152	Medium Yellow	K-91669
PD-251	Brilliant Orange	K-91671
PD-350	Fire Red	K-91672
PD-351	Bright Red	K-91673
PD-450	Emerald Green	K-91675
PD-501	Light Blue	K-49233
PD-504	Ultra Blue	K-74143
PD-700	Black	K-46955
PD-801	Opaque White	K-66307
PD-901	Mixing Vehicle	K-48849

Thinners/Retarders

PD-960	Thinner	K-83965
PD-970	Slow Thinner	K-67020
PD-950	Fast Thinner	K-18000
PD-980	Retarder	K-89782

Reducers/Modifiers

PD-1104	Catalyst	K-45500
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*Pantone, Inc's check-standard trademark for reproduction and color reproduction.

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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.

Sericol, Inc.
1101 W. Cambridge Drive
P.O. Box 2914
Kansas City, KS 66110 USA
1-800-255-4562/(913) 342-4060 Fax: (913) 342-4752
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