

Pad Printing Ink

Type P

Ink Data Sheet

NOTE: Read Material Safety Data Sheet (MSDS) Prior To Use

Ink Type P is a single or two-component product supplied in paste form.

Single-Component: Thinner, if needed, should be thoroughly mixed with the ink prior to using. During printing, the ink viscosity may be adjusted with thinner. **Two-Component:** Hardener must be added for production use. Ink and hardener should be thoroughly mixed prior to adding thinner. During printing, the ink viscosity may be adjusted with thinner (if needed). A retarder may be added to slow drying rate during printing (normally for high room temperatures or multi-color use). Under most conditions, ink pot life will not exceed eight hours. Recommended room temperature: 70-78 degrees F. Recommended room humidity 30-50%. **Special Additives:** For increased adhesion to difficult substrates, use Adhesion Promoter FX-209. This additive will not create a pot life to the ink, except for metallics which are usable for only one to two days. For cliché oxidation or rusting problems, use Anti-Corrosive Ink Thinners VD/00 or B/01. For a write-on capable ink (single-component) use Fuller 33 additive.

ADDITIVES: (See Additives Chart for more listings)

Hardeners: (mixing ratio, ink to hardener)

BH HARDENER (10 : 1 Ratio by weight) For most applications.

BH/N HARDENER (10 : 1 Ratio by weight) More ultraviolet light and abrasion resistant but requires additional drying time.

Thinners:

THINNER C (5-20% by weight) High Speed

THINNER B/01 (5-20% by weight) Faster, Anti-Corrosive

VD THINNER (5-20% by weight) Medium

VD/00 THINNER (5-20% by weight) Medium, Anti-Corrosive

THINNER BGA (5-20% by weight) Slower

Retarder:

TPD RETARDER (1-3% by weight) Single-Component

Special:

FX-209 (10-20% by weight) Ink Adhesion Promoter

Fuller 33 (6% by weight) For Write-On Capability

USE & STORAGE INFORMATION

(For more detailed information see Material Safety Data Sheet (MSDS) for Type P Ink.

Ink Type P:

Stir ink thoroughly before removing from container. Reseal lid tightly after using. Warranty Period: Two years from ship date (In original sealed container)

HARDENER: Reseal container immediately after using. Hardener is humidity sensitive. As moisture is absorbed, the viscosity first increases, then starts forming crystals. Do not use when crystals first appear.

Warranty Period: One year from ship date (In original sealed container)

THINNER: Reseal lid tightly after using. Warranty Period: two years from ship date (In original sealed container)

RETARDER: Reseal lid tightly after using. Warranty Period: two years from ship date (In original sealed container)

STORAGE OF ALL PRODUCTS: At room temperature 60 to 80 Degrees F with low humidity.

Pad Printing Ink

Type P

Ink Data Sheet

AVAILABLE COLORS: (See Color Availability Chart)

Ink Type P is available in:

- 23 Standard Opaque Colors
- Standard Metallic Colors
- Process colors
- Custom Colors Available Upon Request
- C-Mix 2000 Color Matching System

DRYING & CURING:

Ink TYPE P dries to the touch within 15 to 30 seconds at room temperature. Drying time (to the touch) may be reduced with forced hot air at 200 – 400 degrees F. Normally, full cure is achieved after five to six days, depending on curing temperature, time and humidity. Heat curing is necessary for better adhesion and performance results.

Recommended Printing Substrates:

: Indicates the substrate may require pretreatment.

THERMOPLASTICS

- Acrylonitrile-Butadiene-Styrene
- Polybutylene Terephthalate
- Polymethyl Methacrylate
- Polyphenylene Oxide #
- Polyamides
- Polycarbonate
- Polyester
- Polyetherimide
- Polyethylene #
- Polyethylene Terephthalate
- Polyimide
- Polyphenylene Sulfide
- Polypropylene #
- Polystyrene
- Polyvinyl Chloride Rigid
- Styrene-Acrylonitrile
- Styrene-Butadiene

THERMOSET

- Phenol Formaldehyde Resin
- Polyester Epoxy Resin
- Polyurethane, Rigid #
- Urea Formaldehyde Resin

METALS

- Aluminum

COATINGS & PAINTS

- Teflon Paint
- UV Coating #
- Miscellaneous Coatings & Paints

MISCELLANEOUS SUB-

STRATES

- Ceramic
- Leather
- Paper
- Porcelain
- Wood

OTHERS

- Cellophane #
- Formica
- Polycarbonate / ABS
- Thermoplastic Polyester Resin

****Since operating conditions and applications are beyond our control, Trans Tech can not guarantee results, nor assume liability for any problem that may arise.**

The user should test the suitability of the product for its intended application. No warranty for results obtained, expressed or implied, can be assumed by Trans Tech.

Trusted Partner for Your Product Decorating Needs

Trans Tech 475 North Gary Avenue, Carol Stream, IL 60188
Tel +1 (630) 752 4000 Fax +1 (630) 752 4467
Email sales@itwtranstech.com

www.itwtranstech.com www.itwid.com

A MEMBER OF

 **IDS** | A Division of ITW