

# 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.

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**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**

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