

# Pad Printing Ink

## Type UV2002

### Ink Data Sheet

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

**Ink Type UV2002** is an Ultra Violet curable ink. Normally, after proper exposure to UV light, immediate testing can be performed. When fully cured, it provides outstanding resistance to: Abrasion / Oil & Grease / Alcohols / Organic Solvents / Chemicals / Perspiration / Diluted Acids / Salt / Diluted Alkalis / Hand Crème / Water / Impact / Weather / Mechanical wear. (See backside of sheet for recommended substrates)

**Ink TYPE UV2002** is supplied in paste form. This ink is recommended for sealed cup pad printers.

Recommended plate depth for pad printing is 20 to 26 microns, depending on type of plate. The ink can be applied single or double hit. If a double hit is required, testing for a complete cure is advised for each color. E50 Clear may be added to aid in curing for double hit applications.

Under normal conditions, the ink should be adjusted with thinner. The ink is UV light reactive. Avoid long term direct exposure to light when using. Yellow Plexiglas machine guarding is advised. Recommended room temperature 70-78 degrees F. Recommended room humidity 30-50 %

#### **ADDITIVES:**

##### **Thinner:**

THINNER C

10 to 15% by weight for Most Applications

THINNER B

10 to 15% by weight

Slower Evaporating Than "C"

##### **Retarder:**

Type TPD 1 to 3% by weight

#### **DRYING & CURING:**

Ink TYPE UV2002 remains tacky until curing takes place.

#### **PREHEAT:** (Optional)

Ink performance may be increased with IR treatment immediately before UV light curing. Typically 140 - 170 Degrees F for at least 35 seconds of forced air.

#### **UV LIGHT CURING:**

Ink TYPE UV2002 only cures under UV radiation of suitable wavelength and intensity. Curing parameters depend on layer thickness, and substrate.

**UV EXPOSURE:** Expose to a medium pressure, Mercury vapor type lamp operating at a minimum of 200W per inch input power. Curing energy should be between 1000 and 2000 mJ/cm<sup>2</sup>. (may vary depending on color shade) After curing, the ink is dry to the touch that can be handled aggressively without damage. Maximum chemical and abrasion resistance will be seen after a period of 24 hours

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**AVAILABLE COLORS:** (See Color Availability Chart )

**Ink Type UV2002 is available in:**

- Standard Colors
- Process Colors
- C-Mix 2000 12 Color Matching System
- Custom Colors Available Upon Request

**USE & STORAGE INFORMATION**

(For more detailed information see Material Safety Data Sheet (MSDS) for Type UV2002 Ink.

**Ink TYPE UV2002:** Stir ink thoroughly before removing from container. Reseal lid tightly after using.  
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)

**STORAGE OF PRODUCTS:** At room temperature 60 to 80 Degrees F with low humidity out of direct sunlight.

**Recommended Printing Substrates:**

**THERMOPLASTICS**

- Acrylonitrile-Butadiene-Styrene
- Polycarbonate
- Polystyrene
- Styrene-Acrylonitrile
- Miscellaneous Thermoplastics

**METALS**

- Miscellaneous Metals

**COATINGS & PAINTS**

- Miscellaneous Coatings & Paints

Rev 5/22/24

**\*\*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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