

# Pad Printing Ink

## Type UV401

### Ink Data Sheet

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

**Ink Type UV401** is a UV-curing pad printing ink which was especially developed for ABS material. However, SAN, polystyrene, PVC, pre-treated polypropylene and other substrates can also be printed. Substrate adhesion testing is highly recommended.

#### UV-curing

UV401 pad printing inks cure only under UV-radiation of suitable wavelength and intensity. Drying parameters depend on layer thickness, color and substrate.

Curing energy should be between 500 and 1000 mJ/cm<sup>2</sup>. Maximum chemical and abrasion resistance will be achieved after a period of 24 hours.

#### Additives

Printing consistency is adjusted with 10-20% thinner (by weight).

|         |                          |
|---------|--------------------------|
| Thinner | Thinner C - fastest      |
|         | Thinner B - faster       |
|         | Thinner VD - medium      |
|         | Thinner BGA - slow       |
|         | Retarder TPD – very slow |

Adhesion and chemical resistance can be improved considerably with the addition of BH/N Hardener. Hardener mixing ratio is 10:1 (ink to hardener) parts by weight. Pot life of the mixed ink is approx. 24 hours.

#### Packaging

UV401 inks are available in 1 liter containers for standard colors. Custom colors are supplied in 1 quart containers.

#### Cleaning

Uncured UV401 inks can be removed from clichés and tools using Dibasic Ester, Cliché Spray, or above thinners.

**Read material safety data sheets prior to processing.**

#### Colors and Compliance

The color shades of the the UV401 ink range have heavy metal free pigmentation and correspond to EN 71, Part 3, Safety of Toys, migration of certain elements.

UV401 inks conform to REACH, RoHS.

These inks do not contain Conflict Minerals, Natural Rubber or Latex, Phthalates, or BSE / TSE.

#### Use and Storage

Stir ink thoroughly before removing from container. Reseal lid tightly after use.

Store ink at room temperature (60 to 80 Degrees F) with low humidity.

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#### C-MIX 2000 Mixing System Colors

|               |         |         |         |
|---------------|---------|---------|---------|
| Primrose      | 1388Y30 | Violet  | 1388V50 |
| Golden yellow | 1388Y50 | Blue    | 1388B50 |
| Orange        | 1388O50 | Green   | 1388G50 |
| Scarlet       | 1388R20 | Black   | 1388N50 |
| Red           | 1388R50 | White   | 1388W50 |
| Magenta       | 1388M50 | Varnish | 1388E50 |

#### Process Colors

|             |        |
|-------------|--------|
| Yellow 180  | 138880 |
| Magenta 181 | 138881 |
| Cyan 182    | 138882 |

#### High Density Colors

|                       |        |
|-----------------------|--------|
| #1 Black High Density | 138891 |
| #2 White High Density | 138892 |

#### Custom Color Inks

Custom color ink shades are available upon request.

**\*\*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.**



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