

Pad Printing Ink

Type UVA

Ink Data Sheet

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

Ink Type UVA is supplied in a paste form. The ink is formulated for open ink well & sealed ink cup systems. Recommended cliché depth for pad printing is 24 microns. The ink has a printable range between 20 to 30 microns, depending on application. The ink can be applied single hit for opaque colors. One or two hits can be used on transparent colors or clear hard coats. The ink viscosity may be adjusted with thinner as needed. Slower thinner may be added to slow drying rate during printing (normally for high room temperatures or multi-color use).

CAUTION: UV ink is light-reactive. Avoid long term direct exposure to UV light when using. Yellow Plexiglas machine guarding is advised. Recommended room temperature 70-78 degrees F. Recommended room humidity 30-50 %

ADDITIVES:

Thinners:

- THINNER B (5 to 12 % by weight) Faster
- VD THINNER (5 To 10 % by weight) Medium
- BGA THINNER (5 To 10 % by weight) Slower

DRYING & CURING:

Ink TYPE UVA dries to the touch within 15-30 seconds at room temperature.

PREHEAT:

Ink performance may be increased with IR treatment immediately before UV light curing.

UV LIGHT CURING:

- UV Exposure: Expose to a medium pressure, Mercury vapor type lamp operating at a minimum of 200W per inch input power.
- Minimum Required Intensities:
 - 40mW /cm² @ 254 nm
 - 150mW /cm² @ 365 nm
- Minimum Exposure Energy: 1.6 joules / cm² measured with a 320 nm – 390 nm UV radiometer
(For increased wear resistance, up to 3 joules may be used).
- Irradiation Time: Requires under 5 seconds (depending on application).
- Conveyor speed: should be 4 – 12 feet / minute (depending on application and thickness of ink).

AVAILABLE COLORS:

Ink Type UVA is available in:

- 23 Standard Opaque Colors
- Custom Colors Available Upon Request
- Clear Hardcoat in matte and gloss finishes available
- Process Colors

USE & STORAGE INFORMATION

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

Ink Type UVA: Stir ink thoroughly before removing from container. Reseal lid tightly after using.

Warranty Period: Six months from ship date (in original sealed container)

THINNER: Reseal lid tightly after using. Warranty Period: Two Years from ship date (in original sealed container)

SPECIAL ADDITIVES: 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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Recommended Printing Substrates:

: Indicates substrate may require pretreatment.

THERMOPLASTICS

Acrylonitrile-Butadiene-Styrene #

Polycarbonate #

Styrene Acrylonitrile

Polyurethane #

NOTE: All grades of substrate materials should be evaluated to determine ink performance.

****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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