

Pad Printing Ink

INK 478



Ink Data Sheet

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

INK 478 can be processed as a one or two component ink. The ink is suited for printing on various thermoplastics, especially also for technical-industrial applications. Main substrates are ABS, SAN, ASA, Polystyrene (PS), rigid PVC, PMMA and polycarbonate (PC). Moreover, INK 478 can be used for printing on certain coated substrates, metals and plastic copolymers. Addition of hardener BH, BH/N, and/or pre-treatment of the substrate may be required.

PROPERTIES

- INK 478 is a solvent-based, pad printing ink, free of cyclohexanone and aromatics. This ink system exhibits physically fast drying properties. The ink already reaches a high initial adhesion on many substrates within a few minutes after printing.
- Optionally INK 478 can also be processed as two component ink with hardener BH or BH/N to improve adhesion on some substrates.
- INK 478 images, even without hardener, show extraordinary high abrasion resistance as well as excellent resistance against ethanol (alcohol) and gasoline. Furthermore, INK 478 exhibits excellent resistance against diesel fuel as well as hand cream.
- The ink shows excellent printing properties at very slow to extremely fast (max. feasible) printing speeds.

COLOR SHADES

Base colors: C-Mix 2000. Mixing system for matching of RAL, PMS and HKS color shades

Opaque colors: Standard HD. 12 extremely opaque color shades

Process colors: 4 color shades according to Europe scale

Bronze colors: gold, silver, copper

Custom colors: available upon request.

ADJUSTMENT FOR PAD PRINTING

INK 478 is not supplied in ready-to-print adjustment.

With addition of thinner, depending on local conditions, the ink is adjusted to printing consistency. 25-35% thinner is a good starting point.

For thinning the following products are available:

- Thinner C - Very Fast
- Thinner B - Fast
- Thinner VD - Standard
- Thinner BGA - Slow
- Retarder TPD - Very Slow

HARDENER

Optionally, INK 478 can also be processed as two component system with hardener (in order to improve adhesion on some substrates). 10 % hardener BH or BH/N is added to the ink (before thinning) and thoroughly mixed in. Pot life (processing time) is 6-8 hours at approx. 68°F.

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DRYING

Pad printing INK 478 dries physically, i.e. by evaporation of solvents. At room temperature the ink quickly dries within a few minutes. Blowing warm air on the prints will considerably reduce drying time.

Note:

When processed with hardener BH or BH/N, initial chemical resistance tests must not be carried out until at least 72 hours have elapsed after printing to allow reaction of the hardener. Allow 30 days curing time prior to full chemical and physical testing. With suitable substrates this waiting period can be reduced considerably by oven-drying the prints at 284°F for 20 minutes.

C-MIX 2000 Base Colors:

primrose	1306Y30	violet	1306V50
golden yellow	1306Y50	blue	1306B50
orange	1306O50	green	1306G50
scarlet	1306R20	black	1306N50
red	1306R50	white	1306W50
magenta	1306M50	clear	1306E50

Standard Colors:

#1 HD Black	130691
#2 HD White	130692
#3 HD Citron Yellow	130693
#4 HD Medium Yellow	130694
#5 HD Dark Yellow	130695
#6 HD Orange	130696
#8 HD Light Red	130698
#9 HD Bright Red	130699
#10 HD Carmine Red	1306910
#13 HD Light Blue	13069913
#15 HD Ultra Blue	1306915
#18 HD Violet	1306918
#19 HD Light Green	1306919

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Bronze Colors:

Light Gold 75	130675
Medium Gold 76	130676
Dark Gold 77	130677
Copper 78	130678
Silver 79	130679

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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.