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# PAD PRINTING INKS KTP/UVA

## APPLICATION

KTP/UVA is a UV-curing pad printing ink which was especially developed for ABS material. However, also SAN, polystyrene, PVC, pre-treated polypropylene and other substrates can be printed. Pre-tests are absolutely necessary!

## UV-CURING

Pad printing inks KTP/UVA only cure under UV-radiation of suitable wavelength and intensity. Drying parameter depend on layer thickness, colour 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.

## COLOUR SHADES

Printing inks by Kent Engineering Co., Ltd. correspond to the requirements of the respective current version of the EUPIA exclusion list. Pigments and other compounds based on antimony\*, arsenic, cadmium, chromium(VI), lead, mercury and selenium are not used.

\*see footnote in EUPIA list

## AUXILIARY AGENTS

Printing consistency is adjusted with 10-20% thinner.

Thinner	<b>TPWA</b>
	<b>TPWB</b>
	<b>POS/B</b>

For retardation use TPWD. If retarder TPWD is too slow, also thinner TPFA can be used as retarder. Adhesion and chemical resistance can be improved considerably with addition of hardener TPWH/N. Mixing ratio pad printing ink KTP/UVA : hardener TPWH/N is 10:1 parts by weight. Pot life of the mixed ink is approx. 24 hours.

## PACKING

KTP/UVA inks are available in 1 liter containers.

## CLEANING

Pad printing inks KTP/UVA can be removed from clichés and tools using thinner TPWC or Cliché Spray.

## SHELF LIFE

For information regarding shelf life please see tin label.

## CLASSIFICATION

Read material safety data sheets prior to processing.

The material safety data sheets according to Regulation (EC) No 1907/2006 (REACH) contain classification according to preparations directive (1999/45/EC) as well as instructions for precautions when processing, handling and storing as well as first aid.

**C-MIX 2000  
BASE COLOURS**

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

**PROCESS SHADES ACCORDING TO EUROPE SCALE**

yellow	KTP/UVA/200
magenta	KTP/UVA/201
cyan	KTP/UVA/202

**BRONZE INKS**

Bronze pastes and powders P985 to P989 are available for printing of silver and gold colour shades.

The bronze pastes are mixed with the corresponding varnish KTP/UVA/E50 prior to processing.

Gold and silver bronzes are metal pigments which may react with the pH-acidic UV components. Therefore mixed bronze inks should be processed quickly (pot life of approx. 24 hours).

Mixing ratios (parts by weight) are as follows :

Gold bronze paste	: KTP/UVA/E50	1:3
Silver bronze paste	: KTP/UVA/E50	1:4

*The statements in our product and safety data sheets are based on our present experiences, however they are no assurance of product properties and do not justify a contractual legal relationship. They serve to advise our business associates, but it is absolutely necessary to make your own printing tests under local conditions, with regard to the intended purpose prior to starting the job. – All former product data sheets are no longer valid. DECEMBER 2013 – Version No.9*