

Technical Data Sheet

KTC Series Pad & Screen-Printing Ink

Characteristics

Type KTC is a 1 or 2 component gloss ink. Thanks to their high opacity, Type KTC inks can be used universally and are especially qualified for totative pad printing machines.

Application

- Pretreated polyolefins (PE/PP)
- Rigid PVC, ABS, SAN, Polystyrene as well as a multitude of other plastics
- Polyamide and Polyacetal (flame treated)
- PUR and Polyester
- Polycarbonate
- PMMA
- Metal Surfaces (Varnished and Unvarnished)
- Paper, cardboard and many other materials following preliminary tests

We do recommend to always carry out adhesion tests prior to the final printing.

Properties

For applications requiring exceptional chemical resistance or for cosmetic preparations, KTC inks should be mixed with Hardener 700001 at a minimum ratio of 10:1. When working with particularly challenging substrates, a ratio of 5:1 (ink to hardener) may be necessary.

The addition of the hardener significantly enhances the ink film's resistance to factors such as chemicals and improves adhesion on most substrates.

Please note that full mechanical and chemical resistance is achieved 3-4 days after printing, allowing time for the ink film to fully cure.

At room temperature, the pot life of ink mixed at a 5:1 ratio is approximately 10 hours. High temperatures and air humidity can further reduce the pot life.

Drying

When the KTC Series inks are used as a 1 component they dry by physical mechanism. If used as a 2 component a chemical reticulation follows physical drying

Colors

Standard Colors:	1 – 29 in our standard color chart
Bronze Colors:	30 – 34 in our standard color chart
Custom Colors:	Available upon request



Recommended Thinner / Cleaning Agent / Hardener

PRISMflex Part Number	Description	Available Size
700001	Additive – Hardener	1 Liter
700030	Additive – Slow Thinner	1 Gallon

All of our thinners are mixable and can be used as a cleaner as well.

Safety Data Sheets

Read the safety data sheet prior to processing.

Safety data sheets comply with Regulations (EC) No. 1907/2006 (REACH), Appendix II.

Safety data sheets can be requested by emailing orders@prismflex.com.

Classification and Labeling

Hazard classification and labeling comply with Regulation (EC) No. 1272/2008 (CLP/GHS)

Conformity

PRISMflex does not use any of the substances of mixtures for the production of printing inks, which are banned according to the EUPIA (European Association of the Printing Inks Industry) exclusion policy. Screen printing inks range Type A/AB color shades, standard, highly opaque standard colors (HD), process colors, silver, fluorescent colors and transparent colors comply with the requirements of toy standard, EN 71-3:2019 Safety of toys – Migration of certain elements (category III: scraped off material). Further compliance confirmations are available upon request. The safety data sheets must be read prior to processing.

Storage

The shelf-life of KTC series inks is 2 years in original, unopened containers.

The storage of the 700001 Hardener should not exceed 1 year.

Available Can Sizes

- 100 grams
- 1 Kilo
- 1 Liter
- 1 Gallon

The printers, converters and the packer/filler have the legal responsibility to ensure that the finished article fits for the intended purposes and that the inks and coating components do not migrate into the consumer good at levels that exceed legal and industry requirements.

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.

