

Technical Information

Screen Inks | Textile Printing



TEXTOPLAST TEV

High Opaque, Eco - friendly, Soft Hand Feel

PVC – Free Plastisol inks

For Cotton, Polyester, Cotton Polyester blends & Linen

Application

TEXTOPLAST TEV is the specialized range of plastisol inks based on a special resin system (non - PVC) which makes the inks eco-friendly

Characteristics

- Eco-friendly - based on non - PVC resin system
- Excellent crack resistance and wash fastness
- Soft feeling and smooth print finish
- High Opaque Brilliant colours suitable for light as well as dark garments
- PVC free, Phthalate free & Lead free inks suitable for children's garments
- Free from solvent and water – gives high ink deposit due to 100 % solid content
- Suitable for direct and cold - peel transfer printing

Printing conditions

Screen mesh – recommended 40 to 300 mesh per inch (18 to 120 mesh/cm) or finer mesh depending on the type of job. For heat transfers, 90 to 150 mesh per inch (35 to 60 mesh per cm) gives the best result

Squeegee – soft or medium hard polyurethane squeegee

Stencil – all solvent resistant stencil emulsions and stencil films are suitable

Curing Procedure

TEXTOPLAST TEV inks can be cured at 145 - 155°C for 2 to 3 minutes to achieve full wash fastness

Alternatively, the prints can be dried at 120 - 125°C for 8 - 12 seconds and the dried prints are to be fused/cured with transfer paper under desired pressure at 180 -190°C for 10 - 15 seconds

Flash curing - The curing time required for flash curing depends upon the type and wavelength of the source and its distance from the print. The curing time also depends upon other factors such as fabric, ink colour, thickness of the ink film and the area of the print, etc

Range

TEXTOPLAST TEV Matching System: Almost any shade can be matched by mixing the selective inks of the matching system which comprises of the basic shades as follows

Match Light Yellow	TEV - 101	Match Violet	TEV - 141
Match Mid Yellow	TEV - 102	Match Ultra Blue	TEV - 151
Match Deep Orange	TEV - 111	Match Deep Blue	TEV - 152
Match Scarlet Red	TEV - 121	Match Green	TEV - 161
Match Carmine Red	TEV - 122	Match Tinting White	TEV - 171
Match Magenta	TEV - 131	Match Tinting Black	TEV - 181
Mixing Clear Base	TEV - 191	Mixing Extender Base	TEV - 192

Spot Colours

Bright Yellow	TEV - 201	Decon Blue	TEV - 254
Light Orange	TEV - 211	Navy Blue	TEV - 255
Vermilion	TEV - 221	Turquoise Blue	TEV - 257
Brilliant Red	TEV - 223	Aqua	TEV - 258
Rhodamine Red	TEV - 226	Yellow Green	TEV - 261
Purple	TEV - 241	Grass Green	TEV - 262
Russel Purple	TEV - 242	Forest Green	TEV - 263
Sky Blue	TEV - 251	Opaque White	TEV - 271
Royal Blue	TEV - 252	Brilliant White	TEV - 272
Reflex Blue	TEV - 253	Dense Black	TEV - 281

Tint Shades

Buff	TEV - 2001	Chocolate Brown	TEV - 2006
Flesh	TEV - 2002	Maroon	TEV - 2007
Khaki	TEV - 2003	Pista Green	TEV - 2008
Old Gold	TEV - 2004	Steel Grey	TEV - 2009
Light Brown	TEV - 2005	Silver Grey	TEV - 2010

Process Colours

Cyan	TEV - 401
Magenta	TEV - 402
Yellow	TEV - 403
Black	TEV - 404

By adding Clear Base TEV - 191, the ink density can be reduced. The ink density can be increased by adding ink concentrates for the process colours in required proportion or by using a coarser mesh

Transfer product

TEXTOPLAST TEV LITHO BACKUP WHITE	TEV - 276
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Fluorescent Shades (Speciality Inks)

Lemon Yellow	TEV - 501
Golden Yellow	TEV - 502
Orange	TEV - 511
Red	TEV - 521
Magenta	TEV - 531
Green	TEV - 561
Glow-in-the-dark	TEV - 581

Shimmers & Glitters (Speciality Inks)

Rich Gold Glitter	SH - 851
Rich Pale Gold Glitter	SH - 852
Silver Sparkle	SH - 854
Rich Gold Shimmer	SH - 861
Rich Pale Gold Shimmer	SH - 862
Silver Shimmer	SH - 854

Auxiliaries

Curable Reducer - TEXTOPLAST TEV inks are available with ready to print consistency. If necessary, Curable Reducer TEV - 901 can be added 2 to 3% to the ink to reduce the viscosity. Always stir well the ink to break down false body and to ascertain the actual viscosity prior to adding reducer.

Curable Thickener TEV - 904 - Can be added up to 5 to 6% to increase the viscosity of the ink.

Soft - hand Additive TEV - 921 - can be added 20 - 30% to enhance the softness of the print.

Over Print Gloss Varnish TEV - 193 - For enhancing the gloss of the print.

Note

- It must be ensured that the entire thickness of the ink film is given enough time to reach the cure temperature to achieve the desired resistance properties
- The cure schedule must be evaluated by testing the print for the desired wash schedule
- Users should satisfy themselves for the compatibility of Micro TEXTOPLAST TEV inks with specific fabrics and the desired resistance properties before commencing production run
- Users should always test for curing, adhesion, crocking, washability and other requirements before commencing production run
- Prints may be ironed from the back of the fabric at a cool setting, with a cloth over the printed area. Prints will not resist dry-cleaning and garments should be marked to this effect
- Due to variation in the substrates and the ink film-thickness, slight colour variation from the actual ink shade is unavoidable

Note - Material Safety Data Sheet is available on request

Note - This information is compiled based upon field experience and extensive laboratory testing. However, customers are requested to satisfy themselves that the products meet their requirements in all respects before starting a print run. Since the printing conditions are not under our control, no guarantee can be given for their performance.