

# Technical information

## Screen Inks



## Micro TEX - TEV

High Opacity, Eco-Friendly, Soft-hand Feeling

### Screen Inks for Textiles



#### Substrates ::

PVC - Free Plastisol inks for cotton, cotton blends, linen

#### Application

Micro TEX -TEV is the specialized range of plastisol inks based on a special resin system (non-PVC) which makes the inks eco-friendly. These inks have all printing advantages of PVC resin based Plastisol ink

#### Characteristics

- Eco - friendly - based on non-PVC resin system
- Excellent crock resistance and wash fastness
- Soft feeling and smooth print finish
- Brilliant colours with extra opacity - suitable for light as well as dark colour garments
- Lead free, phthalate free - 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/inch (18 to 120 mesh/cm) or finer mesh depending on the type of job. For heat transfer, 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 materials and stencil films are suitable

#### Curing Procedure

Microtex -TEV inks can be cured at 160-180°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 185-195°C for 10-20 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

**Micro TEX-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
Flesh	TEV - 2002
Khaki	TEV - 2003
Old Gold	TEV - 2004
Light Brown	TEV - 2005

Chocolate Brown	TEV- 2006
Maroon	TEV-2007
Pista Green	TEV-2008
Steel Grey	TEV-2009
Silver Grey	TEV-2010

## Process Colours :

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

By adding Extender Base TEV - 192, 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

## Speciality Inks :

### Fluorescent Shades :

Lemon Yellow	TEV - 501
Golden Yellow	TEV - 502
Orange	TEV - 511
Red	TEV - 521
Magenta	TEV - 531
Green	TEV - 561

<b>GLOW - IN - THE - DARK</b>	<b>TEV - 581</b>
<b>HIGH DENSITY CLEAR</b>	<b>TEV - 197</b>
<b>PUFF ADDITIVE</b>	<b>TEV - 198</b>
<b>PUFF BASE</b>	<b>TEV - 199</b>

### Metallic Inks :

Rich Gold	SH - 801
Rich Pale Gold	SH - 802
Silver	SH - 804
Sparkling Rich Gold	SH - 841
Sparkling Rich Pale Gold	SH - 842
Sparkling Silver	SH - 844
<b>Metallic Clear Base</b>	<b>TEV - 195</b>

<b>TRANSFER ADHESIVE</b>	<b>TEV-196</b>
<b>BACK-UP LITHO WHITE</b>	<b>TEV-276</b>

Technical Information on Speciality Inks can be made available on request.

## TEXTILE ATM:

Any Quantity, Any Colour, Any Substrate, Any Time

Micro Inks revolutionises garment inks with Textile Inks ATM (Any Time Matching). Get your screen inks in 15 minutes flat. Micro Inks Limited offers INSTANT COLOUR MANAGEMENT SOLUTION to garment printers & manufacturing companies and distributors by introducing Computerized Colour Matching Software.

Contact us for detail information on Technology, Infrastructure and Equipments.

## Auxiliaries

TEV Reducer : Micro TEX - 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 ink to breakdown false body and to ascertain the actual viscosity prior to adding reducer

TEV Gel Tack Reducer TEV - 904 : Can be added up to 5% 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

## Important 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 TEX - TEV inks with specific fabrics and the desired resistance properties before commencing production run
- Users should always test for curing, adhesion, crocking, wash-ability and other requirements before commencing production run
- Prints may be ironed from the back of the fabric at 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

**Material Safety Data Sheet** is available on request

**Note :** The Technical information sheet reflects the current state of our knowledge. 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.

