

# FOTECOAT 1025

## Triple-Cure Emulsion for flated Textile Screen Printing

### 1. DESCRIPTION

- Triple-cure emulsion for printing plastisol, water-based and discharge inks.
- Can be chemical hardened with **FOTECHEM 2119** to produce a waterproof and abrasion resistant stencil.
- High resolution
- Faster in exposure compared to **1099**; it allows to reduce exposure time by 40-50%.

### 2. APPLICATION ADVANTAGES

- 45% solid content before sensitizing (approx. 41% after sensitizing)
- Can be coated wet on wet without intermediate drying cycle to reach a flat stencil profile with an Rz-value of approx 7-8 at 10-12 microns.
- Low odour, color blue
- Easy to reclaim (before hardening)

### 3. COATING TECHNIQUE AND STENCIL BUILD-UP (TROUGH WITH 0.75 MM R)

Mesh	Coating	Stencil Thickness over mesh
43/90 PW	1/1	25 µm
77/55 PW	1/2	16 µm
120/34 PW	1/1	6 µm
120/34 PW	1/2	10 µm

- Intermediate drying and post-coating improve the Rz-value .
- The stencil surface is semi-matt and has no tendency to get sticky.
- The stencil should be completely dry before exposing; for drying never use heat over 40°C.

### 4. STENCIL QUALITY

It is advisable to treat the mesh prior to coating with an abrasive and degreasing paste like **FOTECHEM 2023**; at least the screens should be degreased thoroughly.

### 5. STORING

The freshness of the diazo controls the pot life. Age, transportation and storing conditions influence the quality of the emulsion drastically.

Condition	Service Life
Unsensitized, 18-25°C storage	12 months
Sensitized, stored at 20 °C (pot life)	4 weeks
Pre-coated screens in total darkness at 20°C	1 week

### 6. EXPOSURE TIMES

5 kW metal halide lamp at 100 cm distance; photopolymer bulb at 100 hours operating time.

Coating	Mesh	Time in seconds
1/1	43/90 W	35
1/1	43/90 W	45
1/1	43/90 Y	55
1/1	43/90 Y	70
1/1	77/55 W	30
1/1	77/55 W	35
1/1	120/34 W	20
1/1	120/34 W	25
1/1	120/34 Y	30
1/1	120/34 Y	35

### 7. STENCIL REMOVAL

All commercial decoaters can be used. A high pressure gun is recommended. Stencil removal is only possible, if the screen has not been hardened chemically.

**FOTECO** offers several stencil removers:

- **FOTECHEM 2005** Paste
- **FOTECHEM 2042 S** decoater concentrate 1:30

Ghost images can be removed with **FOTECHEM 2089**.