FOTECOAT 1099

SPT Sales + Marketing GmbH
FOTECO REMCO SAATI

Triple-Cure Emulsion for flatbed 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
- Slower in exposure compared to **FOTECOAT 1025**; but higer in solids.

2. APPLICATION ADVANTAGES

- 48% solid content before sensitizing (approx. 43% after sensitizing)
- Can be coated wet on wet without intermediate drying cycle to reach a flat stencil profile with an Rz-value of approx 7-12 µm.
- 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
77/55 PW	2/3	16 µm
90/48 PW	2/3	12 µm
120/34 PW	2/2	9 µm
150/31 PW	1/2	6 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 completly 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)	2-3 weeks
Pre-coated screens in total darkness at 20ºC	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	43/80 W	35
1/2	43/80 W	45
1/1	43/80 Y	55
1/2	43/80 Y	70
1/1	77/55 W	30
1/2	77/55 W	35
1/1	120/34 W	20
1/2	120/34 W	25

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**.

FOTECO
Eine Marke von SAATI

Our technical advice whether spoken, written, or through test trials corresponds to our current knowledge to inform about our products and their use. It is not meant as an assurance for certain properties of the products nor their suitability for each application.
You are, therefore, obliged to conduct your own tests with our supplied products to confirm their suitability for the desired process or purpose. The selection and testing of products for specific final application is exclusively your responsibility.

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Issue September 2023