FOTECOAT 1930 M

SPT Sales + Marketing GmbH

FOTECO REMCO SAATI

Dual-Cure Photopolymer Emulsion for printing on tiles in single, double or third fire

1. DESCRIPTION

- Dual-cure diazo polymer emulsion for printing on ceramic substrates and for ceramic decalcomanias.
- · Suitable for most ceramic inks
- The sensitizer can be mixed directly into the FOTECOAT 1930 M emulsion (dissolving in water is not necessary).
- The emulsion can be post-exposed to reach complete thru-curing.
- Possibility to harden chemically with FOTECHEM 2119 to produce permanent stencils.
- Blue, high contrast colour to facilitate touch-ups.
- FOTECOAT 1930 M is already light sensitive; the following sensitising with the diazo powder should be done under yellow light only.
- FOTECOAT 1930 M is phthalate-free

2. APPLICATION ADVANTAGES

- After sensitizing approx. 46% solid content
- Medium viscosity, suitable for meshes from 43/90 to 120/34 threads per linear cm and for manual or machine coating.
- The diazo powder can be added directly to FOTECOAT 1930 M; it dissolves quickly and under light stirring. Before coating let the emulsion degas.
- · High resolution with excellent mesh bridging
- Can be decoated with the usual chemicals as long as a catalyser has not hardened the stencil.
- If necessary, FOTECOAT 1930 M can be diluted with a small amount of water.

3. COATING TECHNIQUE AND STENCIL BUILD-UP (COATING TROUGH .75MM 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

It is recommended to let degas the emulsion after sensitizing during a few hours.

4. STENCIL QUALITY

- 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.
- Control stencil humidity with the FOTECO AQUATEST device.

5. STORING

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

Condition	Service Life
Unsensitized 18-25°C storage	18 months
Sensitized, stored at 20°C (pot life)	1 months
Pre-coated in total darkness at 20°C	3 weeks



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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	65
1/2	43/90 W	85
1/1	43/90 Y	100
1/2	43/90 Y	130
1/1	77/55 W	50
1/2	77/55 W	65
1/1	120/34 W	35
1/2	120/34 W	45
1/1	120/34 Y	50
1/2	120/34 Y	65

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.



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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