

FOTECOAT 1970

Dual-Cure Photopolymer Emulsion

1. DESCRIPTION

- Dual-cure photopolymer screen emulsion
- Ideal for most ink systems
- Diazo sensitizer powder can be added directly to the emulsion, without water.
- Blue colour with high contrast
- Can be post-exposed to improve the through-curing.
- Short exposure time
- Environmentally safe

2. APPLICATION ADVANTAGES

- Ideal viscosity for coating on most meshes numbers.
- Coateable wet in wet or with intermediate drying cycle.
- Can be used for manual or hand-coating.

3. STENCIL QUALITY

- Resolution on 120/34 Y, 50 µm: excellent mesh bridging.
- To lower the Rz-value 1 or 2 additional coats can be applied after the intermediary drying cycle. After this the stencil should be dried with print-side upwards.

4. 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)	3-4 weeks
Pre-coated in total darkness at 20°C	2 months

5. EXPOSURE TIMES

- Dry the stencil completely before exposure and never use heat over 40°C.
- 5 kW metal halide lamp at 100 cm distance; photopolymer bulb at 100 hours operating time.

Coating	Mesh	Time in Sec.	Stencil Thickness over mesh
1/1	43/90 W	120	12 µm
1/2	120/34 Y	60	7 µm
2/3	120/34 Y	80	11 µm

6. 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**.