

FOTECOAT 1060

Dual-Cure Photopolymer Emulsion

1. DESCRIPTION

- Fast, dual-cure diazo photopolymer screen process emulsion with separate diazo sensitizer powder, for co-solvent ink systems (inks containing a combination of solvents and water).
- Blue colour, middle viscosity
- Middle speed in exposure time
- Ecologically sound
- Must be processed and stored at temperatures not over 20°C.

2. APPLICATION ADVANTAGES

- 46% solid content before sensitizing (approx. 42% after sensitizing)
- Can be coated wet on wet without intermediate drying to reach a flat stencil profile with an Rz-value of appreciatively 7-8 µm
- Stencils made with **FOTECOAT 1060** can be printed with most inks containing solvents and water.

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

Mesh	Coating	Stencil Thickness over mesh
43/90 W	1/1	20 µm
43/90 W	1/2	30 µm
77/55 W	1/2	18 µm

4. STENCIL QUALITY

- Definition and resolution are excellent
- Perfect mesh bridging is possible
- After wash-out the stencil is very hard and has low swell characteristics.

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	24 months
Sensitized, stored at 20 °C (pot life)	4 weeks
Pre-coated screens in total darkness at 20°C	2 months

6. EXPOSURE TIMES

5 kW metal halide lamp at 100 cm distance; photopolymer bulb at 100 hours operating time. For fine details a post exposure is recommended.

EOM	Mesh	Time in seconds
6 µm	150/31 Y	60
12 µm	120/34 Y	75
16 µm	90/48 W	60
20 µm	77/55 W	90

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**.