

FOTECOAT 1020

Dual-Cure Photopolymer Emulsion

1. DESCRIPTION

- Very fast, dual-cure photopolymer screen process emulsion with separate diazo sensitizer powder, for solvent based and UV-inks.
- Light purple colour, medium viscosity
- Designed for Diect Light Exposure with digital UV-bulbs, laser and exposure diodes.
- Can also be exposed with standard contact light systems.

2. APPLICATION ADVANTAGES

- 30% solid content before sensitizing (approx. 27% after sensitizing)
- Can be coated wet on wet without intermediate drying cycle to reach an adequate stencil profile.
- Ca. 25% shorter exposure time than fast diazo emulsions.

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

- To reach a flatter stencil surface and to lower the Rz-value to improve edge sharpness of the print, 1 or 2 additional coats can be applied after the intermediary drying cycle. Stencil thickness will increase by 1-2 microns.
- **FOTECOAT 1020** is ideal for machine coating.

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)	2 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	Type of Mesh	Time in seconds
6 µm	150/31 Y	30
9 µm	120/34 Y	40
12 µm	100/38 W	50

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**.