

TECHNICAL INFORMATION

Küsnacht, March 2000

FOTECOAT 1970

Sensitising with the new FOTECO DIR-AD system

Economic, fool-proof, all purpose screen emulsion

1. Description

- Dual-cure, photopolymer screen emulsion
- Ideal for most ink systems
- Can be sensitized by direct addition of the sensitizer powder
- The sensitizer is supplied in air-tight, insulated sachets for long shelf-life
- Can be post-exposed to improve the through-curing.
- Blue colour with high contrast
- Excellent adhesion to all meshes
- After sensitizing 33% solids content
- The exposure time is short
- Environmentally safe

2. Coating

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

3. Stencil quality

- Resolution on polyester monofilament 120-34 yellow: 50 µ; excellent mesh bridging.
- To lower the Rz-value 1-2 additional coats can be added after an intermediate drying cycle. After this the stencil should be dried with print-side upwards.

4. Storing

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| – Unsensitized | Up to 1 year |
| – Sensitized at 20°C | 3 - 4 weeks |
| – Shelf-life for coated screens, complete darkness, at 20°C and 60% RF | 2 months |

5. Exposure

- Dry the stencil completely before exposure and never use heat over 40°C 5KW metal halide lamp with photopolymer bulb at 100 cm distance and after 100 operating hours:
 - Polyester monofilament: 120-34 Y: 2P/3S = 11 μ = 60 seconds
 - Polyester monofilament: 120-34 Y: 1P/2S = 7 μ = 50 seconds
 - Polyester monofilament: 43-80 W: 1P/1S = 12 μ = 100 seconds

6. Removal

- Standard stencil decoating chemicals can be used such as FOTECHEM 2044 (powder), 2005 (paste), 2042 (concentrated liquid), 2004 (liquid ready-to-use).
- The decoating chemical should never dry on the stencil.
- Whenever possible degrease before the decoating; this facilitates decoating and helps to prevent ghost-pictures.
- Important: a fully exposed stencil, with complete through-curing, or a post-exposure, renders the stencil removal faster and easier.
- To remove diazo stains use FOTECHEM 2125.
- To eliminate haze, residues, ghost pictures: FOTECHEM 2080 paste together with FOTECHEM 2085 Regenerator Liquid is recommended.

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