

FOTECOAT 1070 matt

1. Description

- Fast, dual-cure diazo photopolymer screen process emulsion with separate diazo sensitizer. For co-solvent ink systems (inks containing a combination of solvents and water).
- Matt stencil surface to avoid off-setting in contact with ink jet films.
- Purple colour.
- High viscosity.
- Short exposure time.
- Ecologically sound.
- Must be processed and stored at temperatures not over 20°C.

2. Application advantages

- 42% solids content before sensitizing (approx. 38% after sensitizing).
- Can be coated wet on wet without intermediate drying to reach a flat stencil profile with a Rz-value of approx. 7 - 8 at 10 - 12 microns.
- Low odour.
- Stencils made with FOTECOAT 1070 matt can be printed with most inks containing solvents and water.

3. Coating technique and stencil build-up (coating trough .75 mm R)

<u>Mesh</u>	<u>Coating</u>	<u>Stencil thickness below mesh</u>
77-55 polyester monofilament	2/3	20 microns
90-48 polyester monofilament	2/3	16 microns
120-34 polyester monofilament	2/3	12 microns
150-31 polyester monofilament	2/2	6 microns

- 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 and the Rz-value go down to 6 - 7 microns.
- FOTECOAT 1070 matt is ideal for machine coating. If necessary the emulsion can be diluted with water.

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**

- Unsensitized up to 1 year } Age, transportation and storing conditions
- Sensitized and stored at 20°C (pot life): 4 weeks } influence the quality of the emulsion drastically.
- Pre-coated screens stored in complete darkness at 20°C: 2 months }
- The freshness of the diazo controls the pot life.

6. **Exposure times**

5 KW metal halide lamp at 100 cm distance; photopolymer bulb at 100 hours operating time.

<u>Stencil thickness below mesh</u>	<u>Type of mesh</u>	<u>Time in seconds</u>
6 microns	150-31 yellow	60
12 microns	120-34 yellow	75
16 microns	90-48 white	60
20 microns	77-55 white	90

For fine details a post exposure is recommended.

7. **Removal**

- All commercial decoaters can be used. A high pressure gun is recommended.
- FOTECO offers several stencil removers:
FOTECHEM 2004 liquid; FOTECHEM 2005 paste;
FOTECHEM 2042 concentrated liquid decoater (1:30) for machine decoating;
FOTECHEM 2048 is a more efficient liquid concentrate (1:30) for decoating;
FOTECHEM 2044 powder.
- The longer the exposure, the better the through-curing of the stencil. If necessary make a post exposure. Both render the decoating easier.

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