

FOTECOAT 1072

Dual-Cure Photoemulsion, Versatile & Economical For General Graphics Printing

1. DESCRIPTION

Fast, dual-cure Diazo-polymer screen process emulsion with separate Diazo sensitizer powder, for solvent based inks.

- ♦ Purple color, excellent definition and resolution.
- ♦ Solvent and humidity resistant.
- ♦ The ready-made stencil can be post-hardened by light to increase the ink suitability and to facilitate stencil removal.
- ♦ Short exposure time

2. APPLICATIONS ADVANTAGES

- ♦ 35% solids content before sensitizing; approx. 34% after sensitizing.
- ♦ Medium viscosity; ideal for very fine meshes.
- ♦ Can be coated wet on wet without intermediate drying to reach on a 305-35 polyester mesh a stencil build-up below the mesh of approximately 12 microns.
- ♦ Stencils made with FOTECOAT 1072 can be printed with aggressive inks containing solvents and can be decoated with the usual chemicals

3. COATING TECHNIQUE AND STENCIL BUILD-UP (COATING TROUGH .75 MM R)

Mesh	Coating	Stencil Thickness below mesh
195-55 polyester monofilament	2/3	20 µm
305-35 polyester monofilament	1/2	10 µm
305-35 polyester monofilament	2/3	14 µm
305-35 polyester monofilament	2/3, 2 face coats	16 µm
355-34 polyester monofilament	1/2	8 µm

- ♦ 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 inter-mediary drying cycle. Stencil thickness will increase by 1-2 microns and the Rz-value goes down to 6-7 microns.
- ♦ FOTECOAT 1072 matt is ideal for machine coating.
- ♦ If necessary the emulsion can be diluted with water

4. STENCIL QUALITY

- ♦ Definition and resolution are excellent and reaches approximately 40 microns
- ♦ The stencil surface is mat and has no tendency to stick to the substrate during the printing process or to the film positive
- ♦ The stencil edges show excellent mesh bridging
- ♦ A Rz-value of 7-8 microns is reached at 14 microns stencil thickness

5. PACKAGING

Available in 1, 5 and 50 gallon containers.

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6. 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, 68-77° F storage	18 months
Sensitized, stored at 68° F (pot life)	3-4 weeks
Pre-coated screens in total darkness at 68° F	4 months

7. EXPOSURE TIMES

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

coating	Type of Mesh	Time (seconds)
1/2	120 T white	45
1/2	120 T dyed	80
2/3	120 T white	60
2/3	120 T dyed	90
2/3 with 2 face coats	120 T dyed	120
2/3	77 T dyed	140
1/2	140 T dyed	70

8. STENCIL REMOVAL

Standard reclaiming methods & equipment normally used to reclaim direct emulsion stencils can be used. Use Fotechem 2092 to remove ink residues. Apply Fotechem 2040 concentrated emulsion remover, diluted according to instructions, to remove the stencil. Use Fotechem 2086 haze remover to eliminate any stubborn stains or residues.

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