

FOTECOAT 1076

Dual-Cure Photoemulsion With Maximum Sharpness for Industrial Printing

1. DESCRIPTION

Extremely high resolution & sharp definition & highly solvent resistant.
Blue color, 37% solids content and medium viscosity.

2. APPLICATIONS ADVANTAGES

Sub-micron dual-cure technology or optimum mesh bridging on both stainless steel and synthetic mesh.
Smooth sidewall geometry for optimum paste release from stencil when printing fine details with high aspect ratio.

3. COATING

FOTECOAT 1076 should be coated by machine. For steel- and V-mesh a coating trough with a steel blade lip should be used. On polyester a sharp standard blade is adequate.

4. STENCIL QUALITY

With correct exposure with a Fresnel-lamp and adequate coating equipment 20 micron lines can be opened on suitable mesh types. Perfect mesh bridging is possible because of the ideal viscosity adapted to the mentioned mesh types. After wash-out the stencil is very hard and has low swell characteristics.

5. PACKAGING

Available in 1, 5 and 50 gallon containers.

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, 65-77°C storage	18 months
Sensitized, stored at 68°C (pot life)	2 weeks
Pre-coated screens in total darkness at 68°C	2 months

7. EXPOSURE TIMES

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

Mesh Type and Count	Coating Sequence	5 kW MH 1m (in seconds)	Fresnel 3.1 kW 80cm (in seconds)
Polyester			
305-35 WH	1 P / 2 S	90	90
305-35 WH	1 P / 2 S	95	95
Vectry V-mesh			
330-23 (330/in)	1 P / 2 S	60	60
380-23 (380/in)	1 P / 2 S	55	55
Steel Mesh			
200/40	1 P / 2 S	125	125
250/36	1 P / 2 S	125	125
325/30	1 P / 2 S	120	120
350/16	1 P / 2 S	110	110

8. 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.

Dynamesh

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