

FOTECOAT 1030

Dual-Cure Photoemulsion That's Extra Abrasion Resistant For Glass And General Graphics Printing

1. DESCRIPTION

Resistant to solvent-based, UV-cured, plastisol, and water-based inks. Blue color, 39% solids and medium viscosity.

2. APPLICATIONS ADVANTAGES

Low friction stencil surface offers improved ink release and higher durability when used with abrasive pastes & inks. Very suitable for use with frit inks, incl. thermoplastic hot melt inks.

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

Mesh	Coating	Stencil Thickness below mesh
196-55 polyester filament	2/3	20 µm
230-48 polyester filament	2/3	16 µm
305-35 polyester filament	2/3	12 µm
380-30 polyester filament	2/2	6 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 1030 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. PACKAGING

Available in 1, 5 and 50 gallon containers.

FOTECO

info@dynamesh.com

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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, 65-77° F storage	18 months
Sensitized, stored at 68° F (pot life)	4 weeks
Pre-coated screens in total darkness at 68° F	2 months

7. EXPOSURE TIMES

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

Stencil thickness below mesh	Type of Mesh	Time (seconds)
6 µm	380-30 dyed	60
12 µm	305-35 dyed	75
16 µm	230-48 white	60
20 µm	196-55 white	90

For fine details a post exposure is recommended.

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.

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