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TECHNICAL INFORMATION

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FOTECOAT 1076

Extra high resolution emulsion for V-mesh (VECTRY of NBC) and steel mesh

1. Description

- Fast, dual cure diazo photopolymer screen process emulsion for solvent based ink systems.
- Light blue color.
- Medium viscosity.
- For lower viscosity water can be added.
- Attention: Let degas for 1 week after sensitizing!

2. Application advantages

- 37% solids content after sensitizing.
- Thanks to its extraordinary composition it can be used for finest line printing.
- The best results can be achieved by exposing with a Fresnel-lens MH-lamp.

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. Storing

- Unsensitized: up to 1 year
- Sensitized and stored at 20°C (pot life): 2 weeks
- Shelf life for storing of ready-made stencils in the dark at 20°C: 2 months

6. Exposure times

Mesh number and type	Coating sequence	Time in seconds	
		5 KW MH 100 cm	Fresnel 3.1 KW 80 cm
Polyester			
120-34 W	1 P / 2 S	90	135
120-34 W	2 P / 3 S	95	145
Vectry V-mesh NBC			
130-23 (330/inch)	1 P / 2 S	60	90
150-23 (380/inch)	1 P / 2 S	55	85
Steel mesh			
200/40	1 P / 1 S	125	135
250/36	2 P / 3 S	125	135
325/30	1 P / 2 S	120	125
350/16	1 P / 2 S	110	115

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 for machine de-coating and 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.
- Ghost pictures (ink and emulsion residues, and diazo stains) can be removed, after decoating, with FOTECHEM 2089. This gel can be applied by coating trough. Hose off within maximum 10 minutes.

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