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TECHNICAL INFORMATION

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FOTECOAT 1021

1. Description

- Very fast, dual cure diazo photopolymer screen process emulsion with separate diazo sensitizer powder in sachets, for solvent based and UV-inks.
- Blue-purple color.
- Medium viscosity.
- Designed for Direct Light Exposure with digital UV-bulbs, laser and exposure diodes.
- Can also be exposed with standard contact light systems.

2. Application advantages

- 34% solids content before sensitizing (approx. 30% after sensitizing).
- Can be coated wet on wet without intermediate drying cycle to reach an adequate stencil profile.
- Low odour.
- Ca. 25% shorter exposure time than fast diazo emulsions.

3. Coating technique

- 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.
- FOTECOAT 1021 is ideal for machine coating.

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
- Sensitized and stored at 20°C (pot life): 2 weeks
- Pre-coated screens stored in complete darkness at 20°C: 2 months

6. Exposure times

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

<u>Stencil thickness over the mesh</u> (EOM)	<u>Type of mesh</u>	<u>Time in seconds</u>
6 microns	150-31 yellow	30
9 microns	120-34 yellow	40
12 microns	100-48 yellow	50

- For fine details a post exposure is recommended.
- The usage of FOTECHEM 2154 (“Liquid Light”) to avoid softness by under-exposure is possible.

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.

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