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TECHNICAL INFORMATION

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# FOTECOAT 1075

New development for printing with abrasive inks

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## 1. Description

- Fast, solvent resistant diazo photopolymer screen emulsion, duo-cure.
- Excellent flexibility coupled with improved adhesion to the mesh.
- Very high definition and resolution.
- Appropriate for long press life for the packaging printing industry.
- Good transparency with light purple colour.
- Recommended for UV inks.

## 2. Application advantages

- Recommended for use in the glass decoration, ceramic printing and ceramic decalcomania's.
- 32% solids content before sensitizing.
- Medium viscosity; can be used with very fine meshes.
- Solvent resistant; by post-exposure the stencil can be hardened so that inks containing small amounts of water can be printed for short runs.
- 60% exposure time compared with a standard diazo emulsion.
- Can be decoated with the usual chemicals.

## 3. Coating technique and stencil build-up

It is always recommended to let the emulsion debubble after sensitizing during a few hours. This prevents pinholes or air bubbles in the stencil. If coarse meshes are used, coat slower to avoid pinholes.

<u>Mesh</u>	<u>Coating</u>	<u>Stencil thickness below mesh</u>
77 T monofilament	2/3	16 microns
120 T monofilament	1/2	8 microns
120 T monofilament	2/3	12 microns
120 T monofilament	2/3; + 2	14 microns
140 T monofilament	1/2	6 microns

## 4. Stencil quality

- The resolution is excellent and reaches approximately 40 microns. The printing edge sharpness is very good. The stencil is less humidity sensitive.
- After wash-out the stencil is hard. Wash-out with high pressure is possible.

- Thanks to the excellent solvent resistance the printing ink does not harden the stencil; removal is therefore possible.
- A chemical post-hardening improves press-life but makes the stencil permanent.

#### 5. **Stocking**

- Unsensitized: 1 year
- Sensitized, at 20°C: 4 - 6 weeks
- Pre-coated screens stored in complete darkness at 20°C: 4 months

#### 6. **Exposure times**

5 KW metal halide lamp at 100 cm distance; iron charged high pressure burner at 100 hours burning time.

<u>Coating</u>	<u>Type of mesh</u>	<u>Time in seconds</u>
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; + 2	120 T dyed	120
2/3	77 T dyed	140
1/2	140 T dyed	70

#### 7. **Stencil removal**

- Remove ink first, then start removal.
- Use 100 grams FOTECHEM 2044 Stencil Remover Powder for 8 - 10 lt of water or
- FOTECHEM 2005 Paste (ideal for large size stencils), applied by brush.
- FOTECHEM 2004 is available as a liquid ready to use.
- For machine removal adapt Remover liquid concentration and speed of decoating cycle. Two liquid concentrates are available: FOTECHEM 2042 (1:30) and FOTECHEM 2040 (1:20). For manual removal use a high pressure jet.

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