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## TECHNICAL INFORMATION

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# FOTECOAT 1569

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### 1. Description

- 100% solvent resistant screen emulsion with separate diazo powder sensitizer.
- Normal exposure time; very easy to remove.
- Touch ups are practically avoided; wash-out is fast and easy and does not need a high pressure device.
- Light purple in color for good transparency.

### 2. Application advantages

- 36% solids content before sensitizing.
- High viscosity (relatively thick).
- For all inks containing solvents alone and no water.
- Even aggressive inks do not harden the stencil during printing so that decoating remains easy regardless of the type of ink.
- Because of the mat surface static problems can be avoided.

### 3. Coating technique and stencil thickness below the mesh

Because of the high viscosity it is recommended to let the sensitized emulsion degas during a few hours before coating. This prevents air bubbles in the stencil which could cause pinholes.

<u>Mesh</u>	<u>Coating</u>	<u>Stencil thickness below the mesh</u>
43 T monofilament	1/1; + 2	14 microns
43 T monofilament	2/2	20 microns
77 T monofilament	2/3	24 microns
77 T monofilament	2/5	35 microns
120 T monofilament	1/2	10 microns
120 T monofilament	2/3	16 microns
120 T monofilament	2/3; + 2	18 microns

FOTECOAT 1569 is ideal for machine coating. If a lower viscosity is wanted, additional water can be added without changing the exposure time.

### 4. Stencil quality

- The resolution is good and reaches approximatively 60 microns.
- The definition is good.
- After the wash-out the stencil is relatively soft. Do not use high pressure wash-out device.
- The stencil is sensitive to humidity.
- Chemical hardening is not recommended.
- For stencil cleaning during printing it is necessary to use a solvent that does not contain water; otherwise the stencil becomes soft or sticky.

## 5. **Stocking**

- Unsensitized: approximately 1 year
- Sensitized at 20°C: 4 - 6 weeks
- Pre-coated screens stored in complete darkness at 20°C: 4 weeks
- Frozen emulsion can be thawed at room temperature.

## 6. **Exposure times**

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

<u>Coating technique</u>	<u>Mesh</u>	<u>Time in seconds</u>
1/2	120 T white	70
1/2	120 T dyed	110
2/3	120 T white	100
2/3	120 T dyed	160
2/3; + 2	120 T dyed	200
2/3	77 T dyed	240
2/2	43 T white	260

## 7. **Decoating**

- Remove ink thoroughly immediately after printing with solvent of the ink.
  - Preferably use degreaser FOTECHEM 2003 before removal; the degreasing action speeds up the following removal cycle.
  - If decoating is done in automatic machines the degreasing cycle is in most cases necessary.
  - Because stencil removal is always very easy, low concentrations in automatic machines of the stencil remover can be used or the through-speed of the machine can be increased.
- Use 10 - 15 litres of water to 100 grams of FOTECHEM 2044 Remover Powder or use FOTECHEM 2005 Paste, applied by brush; this is ideal for large size stencils.
- FOTECHEM 2004 Liquid is approved for fast removal.
  - In automatic decoating machines FOTECHEM 2042 is recommended. This is a highly concentrated liquid that can be diluted with up to 30 parts of water.
  - For the degreasing cycle our low foam level Degreaser Concentrate FOTECHEM 2033 S, diluted with 100 parts of water, is ideal. After application of the chemical wash-out with hard water spray; a high pressure wash-out device is not necessary.
  - Ghost pictures caused by ink residues can be removed with our solvent based, emulsifying Regenerator FOTECHEM 2085 coupled with FOTECHEM Paste 2080 (highly alkaline) for degreasing and residue removal.

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