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TECHNICAL INFORMATION Küsnacht, December 1992 (rev. 4/06)

# FOTECOAT 1570

1. **Description**
   - Fast, fully solvent resistant screen emulsion with separate diazo powder sensitizer.
   - Easy to remove.
   - Blue in color for good transparency.

2. **Application advantages**
   - 33% solids content before sensitizing.
   - High viscosity (relatively thick).
   - For all inks containing solvents alone and no water.
   - 40% exposure time compared to standard diazo emulsions.
   - Remains easy to decoat even if aggressive inks have been used during the printing process.
   - Humidity resistant; does not get „sticky“ in high humidity climate (summer months).
   - The mat stencil surface together with a unique composition help to avoid electrostatic problems.

3. **Coating technique and stencil thicknesses below the mesh**

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

| Mesh | Coating | Stencil thickness below the mesh |
|---|---|---|
| 43T monofilament | 1/1; + 2 | 12 microns |
| 43 T monofilament | 2/2 | 16 microns |
| 77 T monofilament | 2/3 | 20 microns |
| 77 T monofilament | 2/5 | 30 microns |
| 120 T monofilament | 1/2 | 8 microns |
| 120 T monofilament | 2/3 | 12 microns |
| 120 T monofilament | 2/3; + 2 | 14 microns |

FOTECOAT 1570 is very appropriate for large size stencils because of the short exposure time; it is ideal for machine coating. It can be used successfully on white and dyed mesh, or V2A; coarse meshes are suitable.

4. **Stencil quality**
   - The resolution is good and reaches approximatively 60 microns.
   - The definition is excellent.
   - After the wash-out the stencil is relatively soft. Use high pressure wash-out device with low pressure, enough distance and care.
   - A chemical hardening is not recommended.

5. **Stocking**
   - Unsensitized: approximatively 1 year
   - Sensitized at 20°C: 4 - 6 weeks
   - Dark storage at 20°C: 4 weeks

6. **Exposure times**

   5 KW metal halide lamp at 100 cm distance; iron charged high pressure (photo-polymer) burner at 100 hours burning time.

| Coating technique | Mesh | Time in seconds |
|---|---|---|
| 1/2 | 120 T white | 20 |
| 1/2 | 120 T dyed | 30 |
| 2/3 | 120 T white | 35 |
| 2/3 | 120 T dyed | 45 |
| 2/3; + 2 | 120 T dyed | 50 |
| 2/3 | 77 T dyed | 70 |
| 2/2 | 43 T white | 90 |

7. **Decoating**
   - Remove ink thoroughly immediately after printing, degrease first if possible, then decoat.
   - Use 10 litres water to 100 gr of FOTECHEM 2044 Remover Powder
     or
     use FOTECHEM 2005 Paste, applied by brush.
   - FOTECHEM 2004 Liquid is approved for fast removal.
   - FOTECOAT 1570 can be used for decoating in automatic removal devices. For this purpose FOTECHEM 2042 (1:30) or FOTECHEM 2040 (1:20) is ideal.
   - Wash-out with hard water spray; a high pressure wash-out device is necessary in some cases.

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