

FOTECOAT 1569

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. APPLICATIONS 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 BUILD-UP (COATING TROUGH .75 MM R)

Mesh	Coating	Stencil Thickness below mesh
43 T monofilament	1/1, 2 face coats	14 µm
43 T monofilament	2/2	20 µm
43 T monofilament	2/3	24 µm
43 T monofilament	2/5	35 µm
43 T monofilament	1/2	10 µm
43 T monofilament	2/3	16 µm
43 T monofilament	2/3, 2 face coats	18 µm

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

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5. STORING

The freshness of the Diazo controls the pot life.

Age, transportation and storing conditions influence the quality of the emulsion drastically.

Condition	Service Life
Unsensitized, 18-25°C storage	18 months
Sensitized, stored at 20°C (pot life)	4-6 weeks
Pre-coated screens in total darkness at 20°C	4 weeks

6. EXPOSURE TIMES

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

Coating	Type of Mesh	Time (seconds)
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 face coats	120 T Dyed	200
2/3	77 T Dyed	240
2/2	43 T White	260

7. STENCIL REMOVAL

All commercial decoaters can be used. A high pressure gun is recommended. Stencil removal is only possible, if the screen has not been hardened chemically.

FOTECO offers several stencil removers:

- ◆ FOTECHEM 2004 liquid; FOTECHEM 2005 paste
- ◆ FOTECHEM 2042 concentrated liquid decoater (1:30) for machine decoating
- ◆ FOTECHEM 2048 is a more efficient liquid concentrate (1:30) for decoating
- ◆ FOTECHEM 2044 powder

Ghost pictures can be removed with FOTECHEM 2085 (blend of emulsifying solvents) followed by FOTECHEM 2080 (high alkaline paste).

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