FOTECOAT 1569

SPT SALES + MARKETING GMBH

FOTECO REMCO SAATI

Diazo Emulsion

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% solid content before sensitizing
- · High viscosity
- · 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 .75MM R)

Mesh	Coating	Stencil Thickness over mesh
43/90 PW	1/1, 2 face coats	14 μm
43/90 PW	2/2	20 μm
43/90 PW	2/3	24 μm
43/90 PW	2/5	35 μm
43/90 PW	1/2	10 μm
43/90 PW	2/3	16 μm
43/90 PW	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.
 It 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.

5. STORING

The freshness of the diazo powder controls the pot life. Age, transportation and storing conditions influence the quality of the emulsion drastically.

Condition	Service Life
Unsensitized 18-25°C storage	24 months
Sensitized, stored at 20°C (pot life)	4-6 weeks
Pre-coated 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	Mesh	Time (seconds)
1/2	120/34 W	70
1/2	120/34 Y	110
2/3	120/34 W	100
2/3	120/34 Y	160
2/3, 2 face coats	120/34 Y	200
2/3	77/55 Y	240
2/2	43/90 W	260



TECHNICAL INFORMATION

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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 2005 Paste
- FOTECHEM 2042 S decoater concentrate 1:30

Ghost images can be removed with **FOTECHEM 2089**.



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