

FOTECOAT 1068

Emulsion for TextileScreen Printing with solvent- and water-based Inks and Plastisol

1. DESCRIPTION

- Purple, fast dual-cure photopolymer screen emulsion
- Sensitizing with separate diazo powder C6 for 1 kg set, C9 for 4,5 kg set.
- The ready to print screens can be post-exposed to increase the printing resistance.
- Short exposure time
- For longer runs a chemical hardening (catalysing) is necessary.

2. APPLICATION ADVANTAGES

- 41% solid content after sensitizing
- High viscosity
- Good transparency
- Excellent water- and solvent resistance
- Extra good flexibility

3. COATING TECHNIQUE AND STENCIL BUILD-UP (TROUGH WITH 0.75 MM R)

Mesh	Coating	Stencil Thickness over mesh
43/90 PW	1/1	20 µm
43/90 PW	1/2	30 µm
77/55 PW	1/2	18 µm

4. STENCIL QUALITY

Thanks to the high solid content, **FOTECOAT 1068** produces a low Rz-value, flat stencil profile, coupled with excellent resolution.

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	24 months
Sensitized, stored at 20 °C (pot life)	4 weeks
Pre-coated screens in total darkness at 20°C	3 weeks

6. EXPOSURE TIMES

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

Coating	Mesh	Time in seconds
1/2	43/90 W	50
1/1	43/90 W	50

7. STENCIL HARDENING

Recommended is **FOTECHEM 2119**. The hardener can be applied by the usual method. The penetrating and drying times recommended by the manufacturer should be kept to reach the best possible result.

8. 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**.