# **FOTECOAT 1065**

**SPT** SALES + MARKETING GMBH

### FOTECO REMCO SAATI

# Dual-Cure Photopolymer Emulsion for Textile Screen Printing

### 1. DESCRIPTION

- Fast, dual-cure photopolymer textile printing screen process emulsion with separate diazo sensitizer powder, for aqueous ink systems.
- · Blue colour with excellent see-through
- · Very short exposure time
- The ready-made stencil can be post-hardened by UV-light to increase the resistance.

### 2. APPLICATION ADVANTAGES

- · 48% solid content before sensitizing
- High viscosity (adapted for coarse mesh)
- Can be coated wet on wet without intermediate drying down to very coarse mesh.
- Stencils made with FOTECOAT 1065 can be printed with most inks containing water.
   Depending on the aqueous ink system the stencil can be post-hardened with UV-light to reach longer runs. Such a post-hardening makes the stencil also more resistant against solvents that could be contained in the aqueous ink.
- Can also be post-hardened with FOTECHEM 2119
  if a permanent stencil for all inks is desired.
- The FOTECHEM 2119 treatment does not need heat. The stencil can no longer be decoated.

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

Mesh	Coating	Stencil Thickness over mesh
43/90 PW	1/2	23 μm
43/90 PW	1/1	23 μm
120/34 PW	1/1	6 μm
120/34 PW	1/2	16 μm

- Because of the high viscosity of FOTECOAT 1065 it is recommended to degass the emulsion after sensitizing during a few hours.
- A 1/1 coating on coarse meshes is possible. The stencil build-up and hence the sharpness of the printing edge will however decrease.
- FOTECOAT 1065 is ideal for machine coating.
   If necessary the emulsion can be diluted with water.

# 4. STENCIL QUALITY

- · Definition and resolution are excellent
- The high solid content guarantees a flat stencil surface combined with excellent mesh bridging.

### 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)	1-2 weeks
Pre-coated screens	3 weeks
in total darkness at 20ºC	



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## 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
1/2	43/90 Y	90
1/1	120/34 W	30
1/2	120/34 W	40
1/1	120/34 Y	50
1/2	120/34 Y	65

Post-Exposure: Once the stencil is washed-out and dryed it can be exposed again under the sun, day light, fluorescent tubes or with the exposure lamp in the vacuum frame or outside of the frame.

## 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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