

FOTECOAT 1066

Direct ceramic tile printing with high stencil build-up



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1. DESCRIPTION

- ◆ Dual-cure emulsion with 50% solid content to produce thick stencils
- ◆ Fast exposing with wide latitude
- ◆ Resistant to weak solvent-based and water-based inks
- ◆ Light blue
- ◆ Sensitizing with separate Diazo powder: C20 for 1 kg set; C89 for 4,5 kg set.

2. APPLICATIONS ADVANTAGES

- ◆ Very high solids content (50%) and high viscosity can produce 300 µm stencil thickness
- ◆ Extra good flexibility
- ◆ The ready to print screens can be post-exposed to increase the printing resistance
- ◆ For longer runs a chemical hardening (catalyser) is necessary

**3. COATING TECHNIQUE AND STENCIL BUILD-UP (COATING TROUGH .75 MM R)**

Mesh	Coating	Stencil Thickness below mesh
43-80 white	2/2	30 µm
34-100 white	2/4	80 µm
34-100 white	2/3	60 µm
24-120 white	2/5	120 µm
24-120 white	2/2	40 µm
24-120 white	2/4	120 µm

4. STENCIL QUALITY

Thanks to the high solids content FOTECOAT 1066 produces a low Rz-value (flat stencil profile) coupled with excellent resolution.

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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 weeks
Pre-coated screens in total darkness at 20°C	3 weeks

6. EXPOSURE TIMES

Many variables, such as lamp type and age, distance from lamp to screen, mesh type and coating thickness, can affect exposure time. Perform an exposure test with one of two calculators now available (Exposure Calculator and 21 Step Sensitivity Guide) to determinate correct exposure time for a complete cure.

7. CHEMICAL HARDENING

Recommended is FOTECHEM 2130. 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. REMOVAL

All commercial decoaters can be used. A high pressure gun is necessary.

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

The longer the exposure, the better the through-curing of the stencil. If necessary make a post exposure. Both render the decoating easier.

- ♦ For the regeneration of the decoated mesh FOTECHEM 2080/2085 can be used to remove all ink and emulsion residues; jet wash is necessary.
- ♦ Diazo stains can be bleached out after decoating with FOTECHEM 2089.

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