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TECHNICAL INFORMATION

Küsnacht, May 1991

# FOTECOAT 1065

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## 1. Description

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

## 2. Application advantages

- 48% solids content before sensitizing.
- High viscosity (adapted for coarse mesh).
- Can be coated wet on wet without intermediate drying down to a 18 T polyester mesh.
- Practically without odor.
- 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 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 2110 or 2100 if a permanent stencil for all inks is desired. The FOTECHEM 2110 treatment does not need heat. The stencil can no longer be decoated.

## 3. Coating technique and stencil build-up

Because of the high viscosity of FOTECOAT 1065 it is recommended to degass the emulsion after sensitizing during a few hours.

<u>Mesh</u>	<u>Coating</u>	<u>Stencil thickness below mesh</u>
18 T monofilament	1/2	16 microns
43 T multifilament	1/2	23 microns
43 T monofilament	1/1	23 microns
120 T monofilament	1/1	6 microns
120 T monofilament	1/2	16 microns

- A 1/1 coating on coarse meshes is possible. The stencil build-up and hence the sharpness of the printed edge will however decrease.
- FOTECOAT 1065 is ideal for machine coating. If necessary the emulsion can be diluted with water.

## 4. Stencil quality

- The definition is excellent. The high solids content guarantees a flat stencil surface combined with excellent mesh bridging.
- The resolution is good.

**5. Stocking**

- Unsensitized: up to 1 year
- Sensitized, at 20°C: 1 - 2 weeks
- Pre-coated screens stored in complete darkness at 20°C: 3 weeks

**6. Exposure times**

5 KW metal halide lamp at 100 cm distance; iron charged high pressure burner at 100 hours burning time.

<u>Coating</u>	<u>Mesh</u>	<u>Time in seconds</u>
1/2	18 T white	70
1/2	43 T multifilament white	50
1/1	43 T monofilament white	50
1/2	43 T monofilament dyed	90
1/1	120 T monofilament white	30
1/2	120 T monofilament white	40
1/1	120 T monofilament dyed	50
1/2	120 T monofilament dyed	65

**7. Decoating**

- Only possible with high pressure gun.
- A highly concentrated decoater has to be used like FOTECHEM 2004 liquid or FOTECHEM 2005 paste.
- A post-exposure makes stencil removal easier.

**8. Post exposure**

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

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