

# 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

## 2. APPLICATIONS 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 PE 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 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 (COATING TROUGH .75 MM R)

Mesh	Coating	Stencil Thickness below mesh
18 T monofilament	1/2	16 µm
43 T monofilament	1/2	23 µm
43 T monofilament	1/1	23 µm
120 T monofilament	1/1	6 µm
120 T monofilament	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 printed edge will however decrease
- ♦ FOTECOAT 1065 is ideal for machine coating. If necessary the emulsion can be di-luted with water

## 4. STENCIL QUALITY

- ♦ Definition and resolution are excellent
- ♦ The high solids content guarantees a flat stencil surface combined with excellent mesh bridging
- ♦ The resolution is good

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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)	1-2 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	Type of Mesh	Time (seconds)
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. REMOVAL

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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