



Fotec AG

Phone:

e-mail:

Eigenheimstr. 22 CH-8700 Küsnacht

P.O.Box 1123 Switzerland

+41 44 913 30 00 Fax: +41 44 910 45 25

info@fotec.ch

www.fotec.ch

TECHNICAL INFORMATION

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THICK FILM STENCILS

FOTECOAT 1846 SOLO

FOTECOAT 1846 SOLO has a high viscosity between FOTECOAT 1845 SOLO and 1847 SOLO. The usage of this screen emulsion is described in "Technical Information FOTECOAT 1845 SOLO".

FOTECOAT 1846 SOLO is ready to use, presensitized and usable for the production of thick stencils by the wet in wet coating method.

FOTECOAT 1846 SOLO is blue and has a solid content of 44% coupled with a very good solvent resistance. A post-exposure improves the curing whereas a chemical hardening increases the water resistance.

FOTECOAT 1846 SOLO can be applied on polyester meshes from 21 to 77 by manual or machine application. The stencil thickness over the mesh depends on the number of coats from the squeegee side (and naturally on the mesh number).

For the application the following hints should be considered:

1. Manual coating

- 2x printing side, 2x squeegee side wet in wet.
- Scrape from both sides.
- Apply the necessary number of coats from the squeegee side, wet in wet.

2. By machine

- 2x printing side.
- Apply from the squeegee side the necessary number of coats, wet in wet.

The drying should be done with the print side downwards during the first 15 minutes, afterwards turn the screen with the print side upwards and dry at the maximum temperature of 30°C.

The exposure time with a 5 KW metal halide lamp at 100 cm distance to the vacuum frame can be calculated as follows:

On white mesh for every 100 micron total stencil thickness
(thickness of the mesh + stencil thickness over the mesh) = 1 minute;
on yellow mesh 1 minute and 40 seconds.

It is recommended to make a test exposure with a step wedge to find out the correct exposure time.

The wash-out should be done as follows:

- Immerse the exposed stencil in a water bath at 25 – 30°C.
- Then spray with a good water jet the softened parts of the openings until they are clear.
- An excellent tool to wash-out adequately is the Flottmann water pistol.
- A very high water pressure should be avoided because the stencil is relatively soft during the wash-out process.

The chemical hardening with FOTECHEM 2100, 2110, 2111 or 2130 is possible by following our Technical Informations. Chemically hardened stencils become brittle. They can no longer be reclaimed.

The reclaiming can be done with the usual FOTECHEM decoating products.

Storing time is 1 year.

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