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TECHNICAL INFORMATION

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FOTECOAT 1834 SOLO and FOTECOAT 1840 SOLO

Both FOTECOAT emulsions can be used for

- the production of thick stencils by the casting process
- the transfer of THICKFILM FOTECAP TECNO.

FOTECOAT 1834 SOLO has good water resistance.

FOTECOAT 1840 SOLO has good solvent resistance.

The use of both FOTECOAT screen emulsions is described in the leaflet FOTECAP CAPILLARY FILMS.

1. Description

	FOTECOAT 1834 SOLO	FOTECOAT 1840 SOLO
Color	light green	light green
Solids content	40%	41%
Viscosity cps at 25°C	3500	5000
Type	photo-polymer, presensitized	photo-polymer, presensitized
Exposure time	very short	very short
Mesh	it is recommended to use dyed mesh. Stainless steel mesh can be used.	

2. Hints for the stencil production

2.1. Casting method

- Attention: The mesh must be stretched with a minimum of 30 newton/cm to avoid the cracking of the stencil.
- After the pre-coating of the fabric (to clog the open mesh) choose the needed mask to cast in such a way that it is approximatively 4 x higher than the needed stencil thickness over the mesh.

- Work on a levelled table only to avoid the flow-off of the emulsion after the casting.
- Let de-gas thoroughly before drying in the oven.
- Let dry completely at maximum 40°C.
- Use intervals during wash out; immerse in water and use soft spray with luke warm water.
- Highly recommended is a test exposure first. It is important that the screen emulsion is through-cured completely by the light.
- To avoid blisters use only de-gassed emulsion!

2.2. Capillary film method

- Stretch fabric minimum 30 newton/cm.
- With TECNO-films higher than 400 microns it is highly recommended to coat again from the squeegee side twice after the drying cycle.
- To coat the emulsion use a sharp squeegee with 75 - 80 durometer
- Let de-gas completely before drying in the oven.
- Both drying and exposure time are considerably shorter with FOTECAP TECNO than with the casting method.
- Wash out with intervals; immerse in water and use soft spray with luke warm water. To finish use spray gun with low pressure.
- After wash out use screen vacuum dryer from the squeegee side.

3. Removal

- The usual products can be used.
It is important that the chemical can react long enough with the emulsion. Ideal is FOTECHEM paste 2005.
- Another method is to immerse the stencil in FOTECHEM 2004 liquid.
- With FOTECAP TECNO only the emulsion is dissolved, the TECNO-film detaches as a whole piece.

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