

FOTECOAT 1843

Photopolymer Emulsion for use of Computer-to-Screen exposure devices

1. DESCRIPTION

- Ready-to-use emulsion
- Red, medium viscosity
- Resistant to plastisol, water-based, sublimation- and discharge inks
- Outstanding abrasion and humidity resistance
- Excellent print definition

2. APPLICATION ADVANTAGES

- Exposes 4 times faster than diazo or dual-cure emulsions
- Can be coated wet on wet without intermediate drying

3. COATING TECHNIQUE AND STENCIL BUILD-UP (TROUGH WITH 0.75 MM R)

Mesh	Coating	Stencil Thickness over mesh
120/34 PW	1/1	4-5 µm

- **FOTECOAT 1843** has high sensitivity to UV light and is suitable for use with DLE machines.
- 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 a exposure calculator (21 Step Sensitivity Guide) to determinate correct exposure time for a complete cure.
- Ensure that all surfaces (emulsion, film and glass) are free of dust to minimize pinholes.
- Post expose with daylight or exposure lamp to produce a more water-resistance stencil!

4. STENCIL QUALITY

- Perfect mesh bridging is possible
- After wash-out the stencil is hard and has low swell characteristics.

5. STORING

This ready-to-coat emulsion should be stored in a closed can, protected from direct a light. Protect also against freezing.

Condition	Service Life
Unsensitized, 18-25°C storage	24 months
Pre-coated screens in total darkness at 20°C	1 week

6. STENCIL REMOVAL

All commercial decoaters can be used. A high pressure gun is recommended. Stencil removal is only possible, if the screen has not been hardened chemically.

FOTECO offers several stencil removers:

- **FOTECHEM 2005** Paste
- **FOTECHEM 2042 S** decoater concentrate 1:30

Ghost images can be removed with **FOTECHEM 2089**.

7. HEALTH AND SAFETY

Before using, refer to appropriate Safety Data Sheet.