

FOTECOAT 1833

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

1. DESCRIPTION

- Ready-to-use emulsion
- Blue, 45% solid content
- Resistant to plastisol, water-based, sublimation- and discharge inks
- Outstanding abrasion and humidity resistance
- Excellent print definition on any mesh

2. APPLICATION ADVANTAGES

- Resistant to discharge inks without adding diazo or hardening with catalyst
- Exposes 8 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 | 6-7 µm |

- **FOTECOAT 1833** 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
- Contact the emulsion side of the positive with the substrate side of the screen and secure in position before placing the screen in a suitable vacuum frame
- 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 very 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.