

FOTECOAT 1830

One component Photopolymer emulsion - for printing water- or solvent based inks, also ideal for abrasive printing media

1. Description

- Ready to use emulsion
- Red, medium viscosity, 47% solid content
- Exposure time of **1830** is about 50% slower compared to **1833** and therefore the resolution is accordingly higher.
- resistant to plastisol, water and solvent based, UV-, 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 4 times faster than Diazo or dual-cure emulsions
- Can be coated wet on wet without intermediate drying
- Low odour

3. Coating technique and stencil build-up (coating trough .75 mm R)

Mesh
HI-R 71.55 W

Coating
1/2

EOM
24 microns

4. exposure

- **1830** 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!

5. **Stencil quality**

Perfect mesh bridging is possible.

After wash-out the stencil is very hard and has low swell characteristics.

6. **Removal**

Remove all ink residues immediately after printing with an appropriate solvent

- A high pressure gun is recommended.
- All commercial strippers can be used. FOTECO offers several stencil removers:
 - FOTECHEM **2004** liquid
 - FOTECHEM **2005** paste;
 - FOTECHEM **2042** liquid concentrate (1:30) for automatic decoating
 - FOTECHEM **2048** efficient liquid concentrate (1:30)
 - FOTECHEM **2044** powder.

The longer the exposure, the better the through-curing of the stencil. If necessary make a post exposure. Both render the decoating easier.

7. **Storing**

- up to 2 years
- Shelf life for storing of pre-coated screens in the dark at 20°C: few days
- Age, transportation and storing conditions influence the quality of the emulsion drastically.

8. **health and safety**

Before using, refer to appropriate material safety data sheet (MSDS)

SAATI S.p.A.

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