FOTECOAT 1830

SPT SALES + MARKETING GMBH

FOTECO REMCO SAATI

Fotopolymer Emulsion for printing water- and solvent-based inks

1. DESCRIPTION

- Ready-to-use fotopolymer emulsion
- · Red, medium viscosity, 47% solid content
- Exposure time of FOTECOAT 1830 is about 50% slower compared to FOTECOAT 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 ADVENTAGES

- 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

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

Mesh	Coating	Stencil Thickness over mesh
71/55 PW	1/2	24 μm

- FOTECOAT 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!

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	1 week
in total darkness at 20°C	

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.



Our technical advice whether spoken, written, or through test trials corresponds to our current knowledge to inform about our products and their use. It is not meant as an assurance for certain properties of the products nor their suitability for each application. You are, therefore, obliged to conduct your own tests with our supplied products to confirm their suitability for the desired process or purpose. The selection and testing of products for specific final application is exclusively your responsibility.

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