FOTECOAT 1010

SPT Sales + Marketing GmbH
FOTECO REMCO SAATI

Dual-Cure Emulsion for Industrial and Graphic Application

1. DESCRIPTION

Fast, Diazo dual-cure emulsion for solvent based and co-solvent ink systems (ink containing a combination of solvents and water) including water based graphic arts inks and aqueous UV inks.

- Light purple color
- Medium viscosity
- Short exposure time
- Must be processed and stored at temperatures not over 20° C

2. DIRECTIONS

- 40% solids content before sensitizing (approx. 36% after sensitizing)
- Can be coated wet on wet without intermediate drying cycle to reach a flat stencil profile with an Rz-value of approximately 7-8 at 10-12 microns.
- Stencils made with **FOTECOAT 1010** can be printed with all ink systems containing both solvent/water or only solvents.

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

Mesh (*Polyester monofilament)*	Coating	Stencil Thickness below mesh
77-55	2/3	16 µm
90-48	2/3	12 µm
120-34	2/3	9 µm
150-31	1/2	6 µm

- To reach a flatter stencil surface and to lower the Rz-value to improve the edge sharpness of the print, 1 or 2 additional coats can be applied after the intermediary drying cycle. Stencil thickness will increase by 1-2 microns and the Rz-value decrease to 6-7 microns.
- **FOTECOAT 1010** is ideal for machine coating. If necessary the emulsion can be diluted with water.

4. STENCIL QUALITY

- Definition and resolution are excellent.
- Perfect mesh bridging is possible.
- After wash-out the stencil is very hard and has low swell characteristics.
- Printing with most ink types is possible.
- For long runs with aqueous textile inks and pure water media, **FOTECOAT 1915 WR**, **FOTECOAT 1065 or 1636** are recommended.

5. STORING

The feshness of the Diazo controls the pot life. Age, transportation and storing conditions influence the quality of the emulsion drastically.

Condition	Service Life
Unsensitized, 18-25°C storage	18 months
Sensitized, stored at 20°C	4 weeks
Pre-coated screens in total darkness at 20ºC	2 months

6. EXPOSURE TIMES

5 kW metal halide lamp at 100 cm distance; photopolymer bulb at 100 hours operating time. For fine details a post exposure is recommended.

Stencil Thickness below mesh	Type of mesh	Time (seconds)
6 µm	150-31 yellow	45
9 µm	120-34- yellow	55
12 µm	90-48 white	40
16 µm	77-55 white	70

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Eine Marke von SAATI

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7. STENCIL REMOVAL

All commercial decoaters can be used. A high pressure gun is recommended. The longer the exposure, the better the through-curing of the stencil. If necessary make a post exposure. Both render the decoating easier.

FOTECO offers several stencil removers:

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

8. HEALTH AND SAFETY

Before using, refer to appropriate Safety Data Sheet.

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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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