

FOTECOAT 1458

High Speed Photopolymer Emulsion for Industrial & Graphic Printing and Computer to Screen Exposure



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1. DESCRIPTION

Resistant to solvent-based & UV-cured inks. Blue color, 33% solids and medium viscosity. Highly solvent resistant and super easy screen reclaiming.

2. APPLICATIONS ADVANTAGES

Fast exposure (15X) for high productivity with DLE based CTS systems. High resolution and very good definition for wide exposure latitude.

3. COATING TECHNIQUE AND STENCIL BUILD-UP (COATING TROUGH .75 MM R)

- ◆ 1458 can be coated by hand or with the use of an automatic coating machine
- ◆ Apply one or two coats to the substrate side of the screen, followed by one or two coats on the squeegee side. For a thicker stencil, apply additional coats to the squeegee side prior to drying
- ◆ To reach a flatter stencil surface with a lower Rz-value and to improve edge sharpness of 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 goes down

4. STORING

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

Condition	Service Life
Unsensitized, 65-77° F storage	2 years
Pre-coated screens in total darkness at 68° F	2-3 weeks

5. EXPOSURE TIMES

- ◆ Many variables, such as lamp type and age, distance from lamp to screen, mesh type and coating thickness, can affect exposure time.
- ◆ If DLE exposure will be used, perform an exposure test with a 21-step Sensitivity Guide to determine correct exposure speed. The 21-step Sensitivity Guide should be taped directly to the surface of the emulsion in an area that will be fully exposed.
- ◆ 1456 stencils should hold a solid step 5 after thorough developing to guarantee proper resistance during printing, maintaining excellent resolution
- ◆ After washing out a post exposure is possible. Post expose with daylight or exposure UV lamp to produce a more water-resistance stencil

6. STENCIL REMOVAL

Standard reclaiming methods & equipment normally used to reclaim direct emulsion stencils can be used. Use Fotechem 2092 to remove ink residues. Apply Fotechem 2040 concentrated emulsion remover, diluted according to instructions, to remove the stencil. Use Fotechem 2086 haze remover to eliminate any stubborn stains or residues.

7. PACKAGING

Available in 1, 5 and 50 gallon containers.

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