

FOTECAP RUBY (4500 Series)

Dual-Cure Diazo Capillary Film

1. DESCRIPTION

- ♦ The RUBY capillary film represents the result of years of work to create the finest direct stencil film available. RUBY was developed to meet the needs of the industrial printing market, specifically manufacturers of touch screen displays and solar cells, as well as membrane switches and graphic overlays.
- ♦ This film provides wide exposure latitude with the sharpest edge definition, and boasts exceptional resistance to aggressive solvents used during on-press cleaning

2. ADVANTAGES

- ♦ Reddish colour with very good see through
- ♦ The mat stencil surface avoids static problems
- ♦ Easy removal with the usual chemical products
- ♦ Can be adhered manually or by machine
- ♦ Degrease mesh thoroughly. Use degreaser/abrader FOTECHEM 2023 for new polyester mesh

3. THICKNESS/EXPOSURE

Product	Thickness	Recommended PE Mesh	Recommended Stainless Steel Mesh	Exposure with MH lamp 1m dist., mesh 120 t/cm Y
4515	15 µm	150-180 t/cm	325-500 t/in	40 sec
4520	20 µm	120-165 t/cm	300-400 t/in	45 sec
4525	25 µm	100-150 t/cm	250-325 t/in	55 sec

- ♦ Red capillary film specially designed for the most demanding industrial printing applications
- ♦ Highly solvent resistant - Ideal for UV standard ink printing
- ♦ Enhanced sharpness for maximum image resolution and print definition
- ♦ Designed for use in patterning of functional materials and industrial graphics printing
- ♦ Can be used with stainless steel and synthetic mesh
- ♦ Print resistance can be increased by post-exposing

4. PROCESSING

- ♦ Always degrease mesh thoroughly. For new mesh use Fotechem 2034 that is a combined abradant, degreaser & mesh prep. For used screens used Fotechem 2001 combined degreaser & mesh prep.
- ♦ Ensure a smooth & even film of water can be adhered to mesh surface before applying film by capillary method, in order to optimize adhesion and stencil life.
- ♦ For extra long print runs apply one or two coats of Fotecoat 1076 to squeegee side of screen after film is dry and before peeling off the backing film & exposing. This increases the exposure time by approx. 25% with no change in stencil thickness (EOM).
- ♦ Ruby can also be laminated to the mesh with emulsion by the 'direct/indirect method' in order to increase the stencil thickness (EOM) by approx. 50%. In this case the exposure time increase is approx. 50% compared to capillary film by itself.

5. STORAGE

RUBY must be stored at controlled climatic conditions. Maximum shelf-life under best conditions is 12 months. RUBY is sensitive to high humidity and high room temperatures. Available in standard roll size of 104 cm width and in customized sheets sizes.

6. RECLAIMING

Standard reclaiming methods & equipment normally used to reclaim direct emulsion and capillary film 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. POST-EXPOSURE

Possible by sunlight, daylight or LED or fluorescent tubes. Another possibility is to post-expose the stencil in the vacuum frame, preferably with squeegee side against the light.

Dynamesh

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