

# FOTECAP RUBY 4500 SERIES

## Dual-Cure 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.
- Red capillary film specially designed for the most demanding industrial printing applications.
- Highly solvent resistant – Ideal for printing of UV standard and water-based inks.
- 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.
- Available in standard roll size of 104 cm width and in customized sheets sizes.

### 2. THICKNESS/EXPOSURE

Capillary-film	Thickness	PE Mesh	Stainless Steel Mesh	5 kW MH lamp exposure 1 m distance 120 Mesh Y
4515	15 µm	Min. 140	Min. 355	66 Sec.
4520	20 µm	Min. 120	Min. 305	84 Sec.
4525	25 µm	Min. 90	Min. 230	96 Sec.
4540	40 µm	Min.71	Min. 180	250 Sec.

### 3. 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

### 4. PROCESSING

- Degrease mesh thoroughly. Use degreaser/abrader **FOTECHEM 2023** for new polyester mesh.
- Always apply, after degreasing, a wetting agent like **FOTECHEM 2025** to ensure an even, uniform water film on the print side of the stencil. Or use the combined degreaser/wetting agent **FOTECHEM 2002 Gel**. Also available as concentrate (1:10 with water) **FOTECHEM 2022**.
- To print extra-long runs (object printing etc.), apply one coat of **FOTECOAT 1016** or similar onto the squeegee side of the stencil after drying the adhered film and before peeling the carrier and exposure; the exposure time increases 50%.
- **RUBY** can be used by the indirect/direct method to increase definition and stencil build up. The exposure time increases by approx. 50%. The same emulsion as above can be used for adhering.

### 5. STORAGE

Maximum shelf-life under best conditions is for type **4515** and **4520** approx. 24 month and for type **4525** and **4540** approx. 12 months.

### 6. DECOATING

All **FOTECO** standard decoater, like **FOTECHEM 2005** decoater paste or decoater concentrate **FOTECHEM 2042 S** can be used. A high pressure gun is recommended.

### 7. POST-EXPOSURE

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