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TECHNICAL INFORMATION

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# FOTECAP SAPHIR

## Dual cure diazo capillary film

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### 1. **Description**

- Fast exposing, polymer capillary film for all solvent resistant inks.
- Ideal for UV standard ink printing.
- Print resistance can be increased by post-exposing.
- Very short exposure time.
- Excellent definition and very high resolution.
- Biologically safe.
- Available in rolls and sheets.
- For the use consult our brochure “FOTECAP capillary film stencils”.

### 2. **Advantages**

- Greenish colour with very good see through.
- Lays perfectly flat with a mat stencil surface to avoid static problems.
- Various film thicknesses for mesh 90 – 180/cm (40“ – 70“).
- 100% solvent resistant.
- Easy removal with the usual chemical products.
- Can be printed with all solvent based inks. The post-exposure increases the print resistance.
- Can be adhered manually or by machine.

### 3. **Processing** (consult also our brochure “FOTECAP Capillary Films” with illustrations for adhering technology)

- 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 emulsion 1010 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 by 50%.
- SAPHIR 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.

**4. Storage**

SAPHIR must be stored at controlled climatic conditions. Maximum shelf-life under best conditions is 12 months. SAPHIR is sensitive to high humidity and high room temperatures.

**5. Reclaiming**

All standard methods and chemicals can be used. FOTEC AG recommends FOTECHEM 2004 ready-to-use liquid or 2005 paste or the concentrated liquids 2040 (1:20) and 2042 (1:30). The FOTECHEM powder 2044 can be diluted with water.

**6. 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.

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