

# FOTECAP TOPAZ 4100 SERIES

## Standard Diazo Capillary Film

### 1. DESCRIPTION

- **TOPAZ** is available with dry film thickness of: 18 µm (4118); 22 µm (4122); 25 µm (4125); 29 µm (4128); 37 µm (4135); 52 µm (4150)
- **TOPAZ** is solvent resistant
- Coated on 75 µm clear polyester carrier. But **4135** and **4150** are coated on matt carrier.
- Sheets cut to size and standard width rolls are available.
- On demand roll widths can be adapted to the feeder of the automatic mounting equipment.

### 2. TECHNICAL ADVANTAGES

- Easy to adhere for small and large stencil sizes
- It is important to choose the corresponding mesh number to the dry film thickness.
- **TOPAZ** can be used on white and dyed mesh, also on steel mesh. Avoid calendered meshes.
- All standard light sources for screen process stencil making can be used.

### 3. 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 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 50%.
- **TOPAZ** 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.

### Exposure time

TOPAZ	Color	Mesh cm	Polyester white	Polyester yellow	Steel V2A 325
4118	light brown	120 - 180	40 s	55 s	75 s
4122	light brown	120 - 165	55 s	70 s	95 s
4125	light brown	90 - 165	60 s	80 s	105 s
4128	light brown	90 - 165	75 s	100 s	130 s
4135	blue-green	77 - 165	100 s	135 s	175 s
4150	blue-green	43 - 120	150 s	200 s	260 s

### 4. STORAGE

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

### 5. STENCIL REMOVAL

All commercial decoaters can be used. A high pressure gun is recommended. Stencil removal is only possible, if the screen has not been hardened chemically.

**FOTECO** offers several stencil removers:

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

Ghost images can be removed with **FOTECHEM 2089**.