

# CAPILLEX 50

## Solvent Resistant Capillary Film

### DESCRIPTION

Capillex films are precision coated, pre-sensitised capillary photostencil films, which are adhered to the mesh with water prior to exposure.

The films are coated onto a 75 $\mu$  (3 thou) polyester base. The films have been designed for use with solvent based or UV curing inks.

### Applications

A blue/green, thick film Capillex for demanding industrial Screen Printing. Capillex 50 is the quickest way to produce high quality stencils on coarse mesh counts.

- Printed Circuit Boards

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

### FEATURES & BENEFITS

- Multi-coating a direct emulsion takes significantly longer than the simple application of Capillex 50 to the screen. The solvent resistant stencils are extremely tough making them perfect for many demanding industrial applications.
- Mesh range: 40 to 80/cm (100 to 150/inch).
- Easy to use.
- Very fast stencil production.
- Good print definition.
- Very tough.
- Decoatable.

### WORKING INSTRUCTIONS

#### Mesh Preparation

All new synthetic monofilament meshes should be abraded with Autoprep Gel before use. (Used meshes should be re-abraded after every 5 stencils).



All meshes should be degreased using Universal Mesh Prep immediately prior to mounting the film.

### **Adhering to the Mesh**

For large or small screens: -

For best results use the Caplicator film applicator. Cut the film to size and place the film on a dry, flat surface. Using the Autotype Anti-Static Duster, remove dust from the polyester as the film is rolled, emulsion side out, leaving approximately 2 cm ( $\frac{3}{4}$  inch) unrolled. Place the film inside the Caplicator. Spray the mesh with water and wipe excess water from the perimeter of the frame to avoid rivulets after adhering the film.

Contact the rolled film leading edge onto the top of the wet vertical screen and unroll the film down the screen, thus adhering it to the mesh. Remove excess moisture from the inside of the screen with a lightweight, window cleaner type squeegee. Wipe excess water from the perimeter of the frame with absorbent cloth then proceed to drying.

For small screens only:-

Place the film emulsion side up onto a raised pad and lay the dry degreased screen on top. Using a hand spray water bottle, spray water onto the mesh until the film is completely wet. Then squeegee off excess water from the inside of the screen. Wipe water from the perimeter of the frame then proceed to drying.

For more information on how to apply Capillex film, go to the How to Guide section at [macdermid.com/Autotype](http://macdermid.com/Autotype).

### **Drying the Screen**

The screen can be dried with cold or warm air, maximum 30 °C (86 °F). Thorough drying is essential for optimum results. When the support has been peeled off continue drying for a few minutes to ensure the film is completely dry.

### **Storage of Screens**

After applying the Capillex film to the screen and drying, the screens can be kept in the dark for up to a week before exposure, provided that ambient temperature and humidity conditions are maintained. If storage of screens is anticipated, it is recommended that the backing sheet is not removed until the screen is about to be exposed.

### **Exposure**

Correct exposure is essential for optimum stencil performance. Underexposure will give a weak stencil and reduce resistance.

Remove dust from the surface of the stencil and tape positive in position. Place entire screen in a suitable vacuum frame and expose. We recommend use of the Autotype Exposure Calculator for test exposures to ascertain correct timing.



**Washout & Drying**

Wash out the screen from both sides with a strong spray of water. Continue the washout until all parts of the image appear clean and sharp. Blot off surplus moisture and dry at a maximum temperature of 30 °C (86 °F).

Spot out pinholes with sensitised emulsion.

**Blockout**

Block out the area between the edge of the stencil and the frame with Regular, Thick or Blue Filler when using solvent based or UV curing inks.

**Stencil Removal**

Remove ink from the screen with an Autosolve screen cleaner. Then apply Autostrip to both sides of the screen and leave to stand for 5 minutes. The stencil can then be removed with a strong water jet. If a stain or ghost image still remains, use Autokleen Plus.

For more information on how to use MacDermid Autotype products, go to the How to Guide section at [macdermid.com/autotype](http://macdermid.com/autotype).

**SHELF LIFE & STORAGE**

The film should be kept in the protective packaging supplied. Store in a cool place away from hot drying cupboards and radiators. Do not store in a damp place. Correct storage conditions are at a temperature of 5 to 20 °C (40 to 86 °F) and at a relative humidity of 45-60%.

Shelf life at these conditions is one year.

**PACKAGING**

Capillex is available in roll widths of 61 cm, 104 cm and 122 cm wide (24 in, 41 in and 48 in) and in a variety of lengths. Custom cut sheets are available upon request.



**SAFETY & WARNING**

MacDermid Autotype recommends that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use.

**Safety Data Sheets are available from MacDermid Autotype.**

**WASTE TREATMENT**

Prior to using any recommendations or suggestions by MacDermid Autotype for waste treatment, the user is required to know the appropriate local/state/federal regulations for on-site or off-site treatment which may require permits. If there is any conflict regarding our recommendations, local/state/federal regulations take precedent.

**CONTACT INFORMATION**

**To confirm this is the most recent issue, please contact MacDermid Autotype**  
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Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product.  
 READ IT THOROUGHLY PRIOR TO PRODUCT USE.

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