

CAPILLEX

Solvent-Resistant Capillary Films

PRODUCT DESCRIPTION

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

Capillex is available in a variety of thicknesses, for use on a wide range of mesh counts. The films are coated onto a 75 (3 thou) polyester base. The films have been designed for use with solvent-based or UV-curing inks and in the case of Capillex 15 and Capillex CD, also co-solvent and water-based inks. They do not require hardening with special fluids.

APPLICATIONS

Capillex films are sold strictly for use in the screen printing industry as a photo-stencil capillary film. Capillex films are particularly suitable for applications requiring high durability and quality.

WORKING INSTRUCTIONS & AND SAFE HANDLING

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: -

Cut the film to size and place the film and interleaving paper on a dry, flat surface with the interleaving underneath. Using the Autotype anti-static duster, remove dust from the polyester as the film is rolled, emulsion side out, around the plastic tube supplied leaving approximately 2 cms (3/4") unrolled. 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 light-weight, 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.

Drying the Screen

The screen can be dried with cold or warm air, maximum 40°C (140°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 Capillex film to the screen and drying, the screens can be kept in the dark for up to a week before exposure, provided that reasonable 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

Position the positive with the emulsion in contact with the stencil and place in the printing-down frame.

Light sources vary considerably in their general spectral output, especially carbon arcs, therefore it is important to establish to correct exposure level. Check the exposure with the Autotype Exposure Calculator. A guide to exposure times can be found in the working instructions accompanying each roll/box of film.

Washout

Wash out the stencil out with a strong water spray, maximum temperature 45°C (112°F). Continue washing for one minute after the image area is clear. When washout is complete, remove excess water with newsprint or a wash leather and then dry the stencil with cold or warm air, maximum 40°C (104°F).

Blockout

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

Stencil Removal

Clean the screen of all ink and any residues with recommended screen cleaner or other suitable solvent blend. After rinsing the screen with water, apply Autostrip thoroughly with a stiff brush to both sides of the mesh and leave for 5-10 minutes for the emulsion to soften. Then brush over and rinse off with a strong water spray. The most effective removal is with a high pressure stripper. If a high pressure unit is not available, any stencil residue can be removed with Autosolve and any residual ink haze can be removed with Autohaze.

HAZARDS

There are no known hazards associated with this product when used according to the instructions for the stated application. However, as with all photographic products regular skin contact with the emulsion layer should be avoided.

WARNINGS

None applicable.

FIRE PRECAUTIONS

Film burns only with difficulty.

SPILLAGE

Not applicable.

FIRST AID

Not applicable in product's normal usage.

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 15-20°C (60-68°F) and at a relative humidity of 45-60%.

Shelf life at these conditions is eighteen months.

ENVIRONMENTAL

Capillex films comprise a base film made of PET (polyester terephthalate) coated with a water dispersible polymer layer containing plasticisers, pigments, surfactants and light sensitive chemicals. The clean base film may be recycled via local collecting arrangements for PET. The coating does not contain any materials regarded as ecotoxic, environmentally persistent or listed on the EC Black or Grey lists. The film may be safely landfilled or destroyed by authorised incineration. The coating may be safely washed to waste but operators should ensure compliance with any discharge consent conditions determined by the sewage undertaker or water utility company.

DISPOSAL

Conventional refuse disposal.

Product Data

autotype

PACKAGING

Capillex is available in roll widths of 1.04 and 1.22 metres wide in a variety of lengths. Custom cut sheets are available upon request.

September 2000

The information and recommendations in this publication are believed to be accurate and are offered in good faith but do not constitute specifications. Suggestions concerning uses and applications are only the opinion of Autotype International Limited and users should carry out their own testing procedures to confirm suitability for their purposes. Except in the case of death or personal injury caused by the materials, Autotype International Limited **MAKES NO WARRANTY OF ANY KIND AND EXCLUDES ANY STATUTORY WARRANTY EXPRESS OR IMPLIED** other than that materials conform to their current applicable standard specification. Statements herein therefore should not be construed as guarantees of satisfactory quality or fitness for purpose. The responsibility of Autotype International Limited for claims arising out of breach of guarantee, negligence, strict liability or otherwise is limited to the purchase price of the material.

Suggestions concerning working practices and procedures are based on the practices adopted by existing users of the products and are made in good faith. **IT IS THE RESPONSIBILITY OF THE USER TO ENSURE THAT ALL RELEVANT HEALTH AND SAFETY LAWS AND REGULATIONS ARE COMPLIED WITH.** Autotype International Limited does not provide any advice on such laws and regulations and accepts no responsibility, express or implied, for breach of such regulations.

Statements concerning the use of products described herein should not be construed as recommending the infringement of any patent and no liability for infringement arising out of such use is assumed.

SEPTEMBER 2000

**Autotype
International Limited**

Grove Road, Wantage,
Oxon OX12 7BZ UK
Tel +44 (1235) 771111
Fax +44 (1235) 771196
Emergency +44 (1235) 773163

**Autotype
Americas, Inc.**

2050 Hammond Drive
Schaumburg, Illinois 60173
Tel +1 847 303 5900
Fax +1 847 303 5225

**Autotype
International (Asia) Pte. Ltd.**

20 Loyang Lane
Singapore 508919
Tel +65 542 9998
Fax +65 542 9991

www.autotype.com