SCF Capillary Film

SBQ–Based Capillary Film

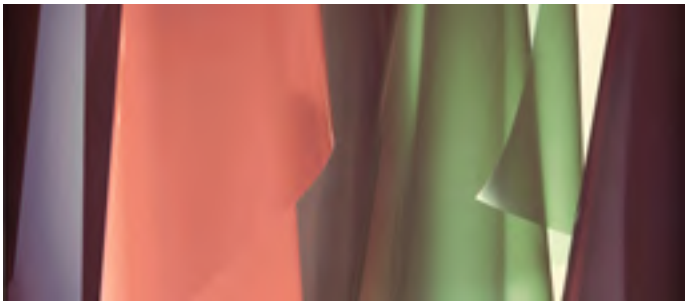
Description

Fast exposing solvent and water resistant capillary film. Exposes three times faster than comparable diazo film. Long shelf life. Easy to reclaim. Can be used with solvent based, UV–Cured, plastisol and water based inks. Post exposure recommended for use with water based inks.

Technical Specifications

Product	Thickness	Color	Recom. Mesh T/cm | T/in
SCF – 12	12 µm	Blue	165–180 420–460
SCF – 16	16 µm	Blue	120–165 305–460
SCF – 20	20 µm	Purple	120–165 305–420
SCF – 25	25 µm	Red	90–130 230–330
SCF – 30	30 µm	Purple	90–130 230–330
SCF – 40	40 µm	Blue	62–110 158–280
SCF – 50	50 µm	Red	43–77 110–196

Sample rolls are available
Standard roll: 26" x 500" and 41" x 394"
Custom sheets available on request.



Film Storage

Opened and unopened rolls or sheets of film should be stored at temperatures of less than 27°C / 80°F for maximum shelf life. Unopened and correctly stored SCF Capillary film will maintain its original properties for two years from the date of production.

Handling The Film

The film should be handled under low wattage tungsten or yellow fluorescent lighting. The film should be returned to the container after cutting off the required length. Do not kink the film as this could affect adhesion to the mesh. The film should be handled wearing light cotton or lint–free gloves to avoid contact with the emulsion surface. Do not allow the film surface to come in contact with water.

Mesh Preparation

All new mesh should be abraded vigorously on the printing side with SAATI Direct Prep 1 before use. SAATI Direct Prep 2 should be used to provide an even water break and to improve adhesion.

Adhering to the Mesh

Large and Small Screens: Cut the film to size and place the film on a dry, flat surface. Roll the film, emulsion side out, around a plastic tube leaving approximately 1" unrolled. Spray the mesh with water and wipe the excess water from the perimeter of the frame to avoid water drops running into the adhered 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 squeegee. Wipe excess water from the perimeter of the frame with an absorbent cloth then proceed to drying.

Small Screens Only: Place the film, emulsion side up, on 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. Squeegee off the excess water from the inside of the screen. Wipe water from the perimeter of the frame, then proceed to drying.

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Drying the Screen

The screen can be dried with cold or warm air, maximum 37/100°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. Drying should be in either dark or yellow light conditions.

Storage of Screens

After applying the 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 the screens is anticipated, it is recommended that the backing sheet is not removed until the screen is about to be exposed.

Exposure

SCF films expose three times faster than traditional diazo sensitized capillary films. It is always recommended to perform a stepped exposure test to determine optimum exposure. The most convenient method is to perform test exposure with a SAATI 21 Step Sensitivity Guide. Optimum time holds solid step 7 after developing. As a guideline, refer to times listed in exposure time chart.

Typical Exposure Time (Seconds)		
Product	Metal Halide 2kw (60")	Metal Halide 5kw (60")
SCF – 12	25	10
SCF – 16	30	12
SCF – 20	40	15
SCF – 25	50	20
SCF – 30	50	20
SCF – 40	75	30
SCF – 50	120	45

Developing

Spray both sides of screen with approximately 27°C/80°F water spray to start washout. The majority of spray should be done from the printing side until image is completely defined. Finish washout by spraying inside of screen to remove any stencil residue.

Post-Exposure

For water–based inks only. After drying, place the stencil back in front of exposure lamp for 2–5x the original exposure. Alternatively the screen can be exposed to sunlight. Post exposure does not affect reclaiming.

Reclaiming

After printing, scrape excess ink from screen and then clean stencil with Remove IR4, or IR11, or IR18. Rinse screen, then strip stencil with ready to use Remove ER5, or diluted Remove ER2, ER6, or ER10. Remove ghost image with a second application of appropriate Remove IR product, followed by high pressure wash. For stubborn stains it is necessary to apply a caustic haze remover, such as Remove HR3, or HR5, or HR9.

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