Thik Plus

High Density Capillary Film

Description

Red photopolymer film thickness ,solvent and water resistance for the production of thick stencil by the direct/indirect method, ideal for ceramic, glass, electronic and textile application

Characteristics

- Easy to handle
- High resolution
- Minimal exposure time
- Ideal for ceramic, electronics and textile applications
- Very good durability
- Time saver in screen preparation
- Extended shelf life
- Excellent print quality
- Perfect for high density printing

Film Storage

Opened and unopened sheets of film should be stored at temperatures of less than 80°F.

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 into contact with water.

Mesh Preparation

All new mesh should be abraded vigorously on the printing side with SAATI Direct Prep1 before use. SAATI Direct Prep 2 should be used to provide an even water break and to improve adhesion.

Film Thickness			
Product	Thickness	Color	Recom. Mesh (T/cm)
Thik Plus 100	100 µm	Red	43-62
Thik Plus 150	150 µm	Red	34-55
Thik Plus 200	200 µm	Red	32-49
Thik Plus 250	250 µm	Red	29-43
Thik Plus 300	300 µm	Red	24-34
Thik Plus 400	400 µm	Red	15-29
Thik Plus 700	700 µm	Red	7-21

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Adhering to Mesh

Several methods can be employed to adhere SAATI Thik film.

Capillary Film Method

Remove all dust from the emulsion side of the film. 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 leading edge of the film onto the top of the wet vertical screen and allow the wet screen's capillary action to adhere the film to the mesh. Remove excess moisture from the inside of the screen with a lightweight window squeegee. Wipe excess water from the perimeter of the frame with an absorbent cloth then proceed to drying.

Direct/Indirect Method

Place the film emulsion side up on a raised surface. Place substrate side of screen onto film. Apply a bead of SAATI Textil PC Blue or PHU Blue to the top edge of the film. Squeegee the emulsion several times until film is completely adhered to mesh.

Backing with Emulsion Method

Mount the Thik Film to the mesh using the Capillary Film Method, allow screen to dry and remove backing. Apply two coats of SAATI Textil PC Blue or PHU Blue to the squeegee side of the screen and proceed to the screen-drying step.

For all above methods, the screen can be further reinforced by applying two coats of emulsion to squeegee side of screen after initial drying.

Drying the Screen

The screen can be dried with cold or warm air, maximum 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.

Exposure

It is always recommended to perform a stepped exposure test to determine optimum exposure. The preferred test method is with a blue backing emulsion coated onto squeegee side of screen. Optimum exposure is indicated as the shortest time that fully cures through the red film and leaves a hardened layer of blue emulsion on the squeegee side of screen after developing.

Washout/Development

Wet both sides of screen with a strong, finely divided spray of water and continue washing out from substrate side until all image areas are fully open. Rinse both sides of screen and dry thoroughly before use. A properly exposed and developed screen should not exhibit scumming or feel slimy on the squeegee side. The use of warm water will decrease washout time.

Reclaiming

After printing, scrape excess ink from screen and then clean stencil with Remove IR4, IR8 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 ink stains it is necessary to apply a caustic haze remover, such as Remove HR3, HR5 or HR9.

Stability

Rolls or films that have been opened and closed should be stored at temperatures not exceeding 80°F (25°) to maintain their properties. When sealed in the original container, protected from light, humidity and heat, THIK PLUS FILMS have a stability of at least 36 months from the date of production.

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