

FOTECHEM 2025

Screen Process all mesh preparation gel for capillary films

1. Description

FOTECHEM 2025 is a brownish gel, ready-to-use. It helps to create a water film on the degreased mesh to allow a pin-hole free, uniform adhesion for all FOTECAP capillary films, as long as the mesh number and the dry film thickness of the capillary film correspond (see separate table). FOTECHEM 2025 promotes water retention and uniform wetting of the screen surface.

2. Directions for use

- Degrease all meshes thoroughly, or
- Use on new mesh a combined abrader/degreaser (FOTECHEM 2023)
- Rinse carefully with a soft water spray
- Brush on to the wet screen FOTECHEM 2025 gel from both sides
- Let stand 1 - 2 minutes
- Rinse thoroughly, including the frame edges, from both sides with a soft water spray
- Keep the still wet screen in upright position
- Then use a very soft water spray from the squeegee side (to avoid dust/dirt particles on the film side!) to form a water film by rewetting the print side with a soft flow-down of the water
- Adhere the FOTECAP capillary film immediately to the wet screen by using any of the adhesion methods (see illustrated-how-use sheet for FOTECAP)
- Apply a single, light squeegee stroke on the squeegee side and remove excess water with paper towels from the frame edges, the backing sheet (carrier) and the open mesh area.

3. Hints

The use of FOTECHEM 2025 improves the adhesion of all FOTECAP capillary films.

To reach a perfect print result with capillary films, the following remarks should be considered:

- The coarser the mesh the more difficult it becomes to build up a continuous water film on the screen.
Consequence: the coarser the mesh the more important it is to use FOTECHEM 2025.
As a general rule, for all meshes below 120-34, FOTECHEM 2025 is needed.
- The finer the mesh the less water can be maintained in the open area of the screen.
Consequence: on fine mesh the screen must be thoroughly and uniformly wet on the print side to ensure a pin-hole free adhesion.
As a general rule, for all meshes over 120-34, a sufficient quantity of water must be applied by using a soft flow-down.

To avoid saw-teeth or insufficient adhesion, the dry film thickness of the FOTECAP must correspond with the mesh number and mesh type. Stencil thickness is directly related to mesh count and thread diameter of the mesh.

4. **Handling and storage**

No special measures are required.

The usual precautionary measures should be adhered to general rules for handling chemicals.

For eye protection use safety glasses.

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