

 **SCREEN-SOL**

 **HS 900**

**Code: AM100007**

**PRODUCT DESCRIPTION**

PURE POLYMER photoemulsion, for the preparation of screens for screen printing

**APPLICATION FIELDS**

Photoemulsion indicated for:

High thickness printing with specific inks (UV, Plastisol etc…)

**GENERAL & TECHNICAL FEAUTURES**

* PURE POLYMER photoemulsion
* Colour: Light Blue
* Ready to use (without sensitizing)
* Excellent resistance to plastisol, solvent and UV inks
* Good resistance to water based inks
* Allows wet-on-wet applications, in order to increase thickness
* Solid content: 47 %
* Viscosity: about 40.000 cps (25 °c)

**SENSITIZE**

Make sure you always work in an area with yellow light.

**SCREEN-SOL HS 900** is READY TO USE without any sensitizer

**APPLICATION**

The ideal application is according to the mesh type, ink used and the RZ value that you want to obtain.

The recommended range of mesh is from 15 Th/cm to 90 Th/cm.

Apply  **SCREEN-SOL HS 900** on clean, degreased and dry mesh.

To obtain high thickness screens there are 2 methods:

**FIRST METHOD**

Apply 2 consecutive coats on both sides of the screen and dry it in the oven at 30-35°C.

Then apply 2 consecutive coats only on the printing side every time with intermediate drying of 10-15 minutes to get the desired thickness. Final dry for at least 1-2 hours according to the applied thickness.

**SECOND METHOD**

To obtain a good thickness (200-300 microns) with fabrics 12-34 threads we tested a faster way:

on dry and degreased screen apply consecutively 8-10 hands of **SCREEN-SOL HS 900** on the squeegee side: in such way the photo-emulsions is pushed out on the printing side. Put the screen to dry in horizontal position with the printing side turned downward and proceed to the final drying

**DRYING**

After application dry in ventilated oven, in horizontal, at 30-35°C for 60-120 minutes according to the thickness applied.

**EXPOSURE**

Lamp type, distance from lamp to screen, mesh type and coating thickness can affect exposure time

To determinate the correct exposure time we suggest to make some test with **AMEX EXPOSURE CALCULATOR**.

Our suggestion:

* Mesh: 24 Th/cm
* Lamp: UV metal-halogen 5000W
* Distance: 1 mt
* Exposure time: Rule of thum is 30 seconds for each emulsion coat.

**DEVELOPMENT**

At room temperature , dip the screen into water for 5 minutes then rinse it through a water jet with medium pressure.

After dry it in an oven at 35°C.

The screen is ready to print. To obtain a stronger screen and higher printing resistance expose again the screen for 3-5 minutes to 5000W halogen.

**RETOUCHING**

After development is possible to retouch the screen using **SCREEN-CHEM FILLER** or with the Pure Polymer photoemulsion. In this case is needed to re-expose the screen for 60 seconds.

**RECLAMING**

For this purpose you can use **SCREEN-CHEM STRIP** according to the instructions given in the product’s technical data sheet.

**SHELF-LIFE**

If stored in its original container at a temperature of maximum 20°C **SCREEN-SOL HS 900** will preserve its features for about 1 year from the date of production.