

"YELLOW 301"

Pure photopolymer emulsion designed for making very thick screen printing stencils. Ready to use, it requires no sensitizer. It is characterized by extremely high solids content (52%). Ideal for stencils **for socks, collodion prints and any application requiring large quantities of ink**. Free from solvents and compounds classified as toxic or harmful by current regulations.

_____:

Water	Solvents	Mechanics	Abrasion	Resolution	Definition	Latitude	Recovery	Solids
7	5	8	8	2	7	2	4	50%

_____:

1 Kg and 5 Kg. ready for use

As this is a pure photopolymer emulsion, bear in mind that it is already sensitive to light. Therefore make sure you always work in an area with screened light (yellow light).
No sensitizer needs to be added so the product can be applied immediately.

In order to achieve optimum adhesion and uniform spreading of the emulsion, we recommend you degrease the screen with RAD SCREEN CLEAN
The ideal method of application will depend on the type of fabric used and the thickness you wish to obtain. One method is to apply several coats one on top of the other, allowing one coat to dry before the next one is applied; this guarantees that the stencil will be perfectly dry, a fundamental requirement in order to obtain correct and effective exposure. Alternatively, after applying the base coat on the external side and two–three coats on the internal side, followed by drying in an oven, possibly with air circulation, at a temperature of 35-40°C; you can fit thicknesses on the side of the screen to enable the deposit of a greater quantity of emulsion. When this application cycle is used you must take care not to exaggerate with the quantity of emulsion; if it is too much, it will dry rapidly on the surface and prevent the evaporation of water from deeper layers, making the exposure ineffective; we also recommend you extend the drying time considerably.

A light-sensitive stencil that has not been correctly dried will drastically affect the production of thickness stencils (removal during the development phase and reduced printing resistance).

After the application, dry in an oven, possibly with air circulation, at a temperature of 30-35°C.

E _____

While bearing in mind that numerous factors affect exposure conditions, i.e. environmental factors and machinery used, just to give an indication we will provide the values obtained in our laboratory:

Lighting:	5000 W (halogen) – distance 150 cm
Application Fabric 15.200:	$i_i + 3e > (\text{oven}) > 3e > (\text{oven}) > 3e > (\text{oven}) > 3e$ i=internal coat e=external coat
Exposition time:	120 sec.
Thickness:	500 microns

Soak the screen in water for at least 15 minutes, then use a high-pressure (20-30 bar) nozzle from the external side of the stencil to prevent removal.
Then place in an oven to dry.

For ordinary applications “YELLOW 301” does not require the use of a catalyst, ensuring excellent resistance against all screen printing vehicles that may be used in the applications for which it has been designed.
If you wish to further increase general resistance, we suggest you use RAD SCREEN FIX. The use of this product will however prevent complete reutilization after printing.

Use the same sensitized emulsion, making sure it is exposed again so that it may have the required resistance characteristics.

After printing the emulsion can be removed from the fabric in order to reuse the screen. We recommend you accurately remove the ink with suitable products before reutilization. For this purpose you can use RAD-SCREEN Strip according to the instructions given in the product’s technical data sheet.

If stored in its original container at a temperature between 15 and 25°C, “YELLOW 301” will preserve its characteristics for at least 1 year from the date of production.