

# UNIVERSAL PLUS ECO

## PRODUCT DESCRIPTION

PRE-POLYMER DIAZO "multipurpose" photoemulsion, indicated for the preparation of screens for textile/graphic printing

## APPLICATION FIELD

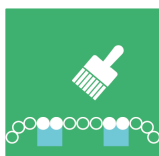
Photoemulsion indicated for printing with:

- Plastisol and water-based inks
- Solvent-based inks

## CHARACTERISTICS

- Colour: blue
- Solid content: 36%
- Viscosity: around 7.500 cps (25°C)
- Suggested mesh from 34 th/cm a 140 th/cm
- Good mechanical resistance
- Good chemical resistance
- Good edge definition
- Solvent free

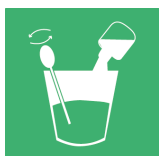
## APPLICATION PROCESS



### FABRIC PREPARATION

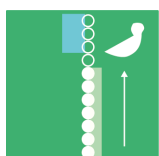
New fabric: degrease with products of the Cleanser.

Recovered fabrics: operate in advance with Polistrip series product and then with Cleanser product series.



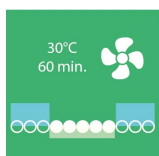
### SENSIBILIZATION

Add Diazo micro-HD powder directly into the emulsion, without dissolving the diazo in demineralized water. Let stand for a few hours to allow the necessary disaeration.



### APPLICATION

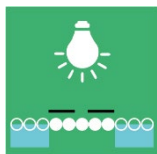
The application depends on the mesh, the suggested range is from 34 Th/cm to 120 Th/cm. For example, with a 62 Th/cm screen, it is recommended to apply an emulsion layer onto the "printing side" and a layer onto the "squeegee side" (by following the indicated sequence).



### DRYING

After application, dry the screen in a ventilated oven for about 60 minutes. It is recommended to dry at a temperature of 30 °C - 40 °C. Too high temperatures could compromise the development of the screen Drying times vary depending on the amount of applied photoemulsion.

### EXPOSURE



The exposure times are conditioned by:

- Quality and type of light source
- Photoemulsion thickness (EOM)

The use of a METAL-HALOGEN UV 5000 W lamp is recommended. For example:

Screen = 62 Th/cm

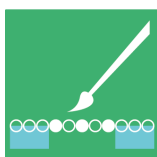
Lamp = metal-halogen UV 5000 W

Distance = 140 cm

Exposure time = 90-110 seconds

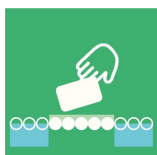
It is recommended to carry out preliminary tests to find the correct exposure time.

### RETOUCING



After the possible retouching with the sensitized photoemulsion, some minutes of re-exposure are needed.

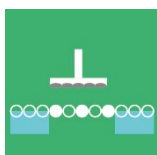
### RECOVERY



If the recovery of the screen after printing is needed, the use of the products of the series POLISTRIP is recommended.

Catalysed screen can not be recovered anymore.

### CATALYSIS



If large printing runs are required and, as a consequence, remarkable chemical/mechanical resistances are needed, the photoemulsion has to be catalyzed through CATALYST 210. The so treated screen may be used after:

- 12 hours, if dried at room temperature
- 45 minutes, if dried into air oven at 50°C
- 

Note: The catalyzed photoemulsion may not be recovered (removed from the screen) anymore.



## SPECIAL RECOMMENDATIONS

Always test the characteristics of the product before starting a production.

Always use the product in a yellow light protected environment.

Sensitized emulsion when stored at a temperature between 4 ° C- 10 ° has a pot life of about 4-6 weeks.

The emulsion stored at a maximum temperature of 25 °C has a duration of about one year

Safety data sheet available on request

## PACKAGING

M222330EK001000	1 Kg
M222330EK005000	5 Kg

## IMPORTANT INFORMATION NOTE

The information contained in this data sheet is not to be considered exhaustive, but anyone who uses the product for any purpose other than that specifically recommended on this document without a precise written confirmation from us, He does it at his own risk.

Although we strive to ensure that all the advice given here about the product is correct, we do not have any control over the quality and conditions of the support, or the multiple factors that may affect the use and application of the product.

Therefore, except for specific written agreements, we do not accept any responsibility - of quality nature and in whatever way it occurs - for the performance of the product, nor for any loss or damage resulting from the unauthorized use of the product.

The information contained in this document is subject to periodic reviews, based on experience and our policy of constant product improvement.