

188 PLUS ECO

PRODUCT DESCRIPTION

Diazo prepolymer emulsion for the preparation of screen used in the screen-printing process.

APPLICATION FIELDS

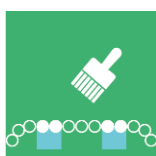
Photoemulsion suitable for screen printing with:

- Water-based and plastisol inks
- Solvent-based inks

TECHNICAL FEATURES

- Blue colour
- Solid content: 39%
- Viscosity: around 8.000 cps (25°C)
- Recommended mesh from 34 threads/cm up to 120 threads/cm
- Very good chemical and technical resistance
- Solvent free

APPLICATION PROCESS



MESH PREPARATION

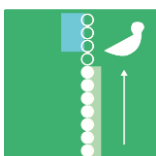
New fabrics: degrease with CLEANSER

Recovered fabrics: work in advance with CLEANER STRIP PASTA, then treat with CLEANSER



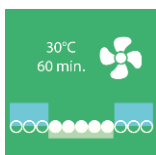
SENSITIZATION

Add DIAZO SENSITIZER POLVERE HD to the emulsion, after diluting it into water previously. The de-aeration time is about 2 hours. The mixture has a pot-life of 4 weeks, if kept in a dark and cold (4-10°C) place.



APPLICATION

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



DRYING

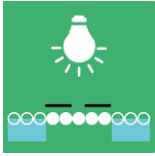
It is recommended not to exceed 30°C – 35°C. The drying time may vary, according to the applied photoemulsion quantity.

Higher temperatures can compromise the development of the frame.

It is advisable to place the frames in a horizontal position and with the side to be printed facing down.

EXPOSURE

The exposure depends on the applied photoemulsion quantity. The use of a METAL-HALOGEN UV 5000 W lamp is recommended. For example:



- Screen = 120.34 Th/cm
- Lamp = metal-halogen UV 5000 W
- Distance = 140 cm
- Exposure Time = 45-50 seconds

We strongly recommend accurate preliminary tests to set the right exposure times

DEVELOPMENT



It is advisable to dip the screen in room temperature water for about 5 minutes, then rinse the sides of the frame with a stream of water until the drawing details are fully open. Dry in the oven at a maximum temperature of 30 ° C

RETOUCHING



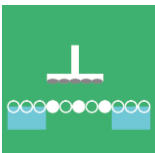
Possible retouching can be done with the photo-sensitized emulsion, after drying, re-expose the screen for a few minutes. For retouching it's possible to use one of the products of Dural Archim series too.

RECOVERY



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

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 INFORMATION

- Always test the characteristics of the products, before starting application.
- Always use the product in a yellow light screened environment.
- The sensitizers must be kept at a temperature of about 5°C. In these conditions, the product has a shelf-life of about 1 year.
- The non-sensitized emulsion, if kept at a maximum temperature of 20°C, has a shelf-life of about 1 year.
- The sensitized emulsion, if kept at a temperature of about 4°C - 10°C, has a pot-life of 4 weeks.
- safety data sheet available on request

PACKAGING

M22700EK001000	1 Kg
M22700EK005000	5 Kg

IMPORTANT NOTE

The information given in this technical sheet is not intended to be exhaustive and any person, using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us to the suitability of the product for the intended purpose, does so at his own risk.

While we endeavour to ensure that all advice, we give about the product is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product.

Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage arising out of the use of the product.

The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.