ZERO IN ASTRA

Code M*ASTRA

PRODUCT DESCRIPTION

PRE-POLYMER DIAZO photoemulsion, indicated for the preparation of screens for screen printing

APPLICATION FIELDS

Photoemulsion indicated for printing with:

- Plastisol and water-based inks
- Sublimation inks

TECHNICAL FEATURES

- COLOUR = BLUE
- SOLID CONTENT = 43%
- VISCOSITY = about 8000 cPs (25°C)

GENERAL FEATURES

- PRE-POLYMER DIAZO photoemulsion
- It needs to be sensitized through DIAZO-COMPOUNDS
- Excellent resistance to plastisol and water-based inks
- Excellent resistance to sublimation inks
- Excellent chemical/mechanical resitances
- High solid content
- Free from risk labelling

APPLICATION PROCESS

Sensitizer	**DIAZOSENSITIZER MICRO HD POLVERE** It doesn't need to be diluted into water
Application	Depending on the used mesh
Drying	30°C – 40°C
Exposure	Depending on the applied photo-emulsion quantity
Development	Water
Retouching	In case, with the sensitized photo-emulsion
Catalysis	In case, with **CATALYST 210**
Varnishing	Not needed
Recovery	With products of the series **POLISTRIP**
Package	**M1ASTRA** = 1 Kg Kit (1 x 1 Kg **ZERO IN ASTRA** + 1 dose of DIAZO) **M5ASTRA** = 10 Kg Kit (2 x 5 Kg di **ZERO IN ASTRA** + 2 doses of DIAZO)
Safety Data Sheet	Available upon request

SENSITIZING:
Add **DIAZOSENSITIZER MICRO HD POLVERE** directly into the photoemulsion. 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 suggested range is from 55 Th/cm to 140 Th/cm. For example, with a 55 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:
It is recommended not to exceed 30°C – 35°C. The times may vary depending on the applied photoemulsion quantity.

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

- Screen = 55 Th/cm
- Lamp = metal-halogen UV 5000 W
- Distance = 140 cm
- **Exposure time= 70-80 seconds**

DEVELOPMENT:
It is recommended to dip the screen into water at room temperature for about 5 minutes. Rinse off through a water jet, and subsequently dry into oven at a temperature of about 30°C – 40°C.

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

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.

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

Screen Chemicals

SPECIAL INSTRUCTIONS

- 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.

IMPORTANT NOTE