



SCREEN CHEMICALS

ZERO-IN UNIVERSAL

Technical Data Sheet N° 2/SC-S

24st May 2007

SCREEN PRINTING

High quality photopolymer-diazo emulsion for the preparation of screens used in the screen printing process.

- Exceptional resistance to print with **solvent-based, plastisols and UV inks as well as water-based pastes and sublimation products.**
- Easy to use
- Solvent-free. Environmentally-safe.
- High solid contents (45%)
- Excellent mechanical resistance. Very good resolution and perfect edge definition.
- Screen recovery after printing
- Short exposure times – very good development in water – good exposure latitude.
- Long pot-life of the sensitized product.

EMULSION SENSITIZING:

Sensitize the emulsion with DIAZO MICRO HD (new-concept Diazo sensitizer not requiring pre-dissolution in water), ready-to-use. Accurately stir until complete dissolution. Let the emulsion rest for 1 hour at least to allow air release.

DEGREASING:

Cleanser 80 diluted in 4-5 parts water

GHOST IMAGE REMOVAL:

Cleaner Strip 442045
ANTIGHOST and ANTIGHOST ATTIVATORE (161870-161871)

COATING:

N.2 coats on each screen side with automatic coating machine.

DRYING:

in a screen dryer for 1 hour at least, at the max. temperature of 30°-35°C. Screens prepared can be engraved even after one week provided that they are not exposed to heat and direct light.

EXPOSURE:

indicative times with a temperature of 20°C approx., 50%humidity, 1,40 mt distance, 5000 W halogenid lamp:

Th/cm	Time/seconds
120	35"
55	50"

We strongly suggest to always carry out preliminary tests in order to establish the correct exposure times.

Information contained in this Technical Data Sheet constitute the result of tests carefully carried out and express our best as well as most up-dated know-how. Nevertheless these news are published only as information and can't neither engage the responsibility of our company nor provide a whatsoever pretext for disputes of any kind, which could any how be connected to the usage of above described products. In consideration of the above the usage conditions are not under our control.

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- DEVELOPMENT:** in water at room temperature for 5'. Rinse by the use of a water jet until the image is completely open and clear. Dry at room temperature or in oven at 30° C max.
- HARDENING:** not required. To increase printing resistance re-expose the screen for 60-90". The emulsion can be hardened with a Catalyst (see the relevant technical data sheet) when extended runs are required. On this case it becomes permanent and the screen cannot be recovered.
- LACQUERING:** protective lacquering coating not required.
- RETOUCHING:** to be made with sensized UNIVERSAL on a perfectly dry screen. After retouching, screens have to be re-exposed to light.
- CLEANING:** tools must be washed out with water immediately after the use.
- SCREEN RECOVERY:** with Polistrip (161800), Solvente 610 (152610) or Solvent Strip (90945)

SHELF LIFE:

Condition of the product	Shelf life
Sensitized emulsion	1 month when kept in a fresh ambient (4-10°C)
Emulsion (not sensitized)	in its original containers at 20°C: 12 months approx.
Diazo sensitizer	far from humidity at 20° C 8-10 months – at 5°C for 12 months approx.

- PACKING:** Kit of 1 kg (with DIAZO): code M0UNIVERSAL
Kit of 10 kg (2 x 5 with DIAZO) code: M5UNIVERSAL

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