# ROTOMASK S

**Photo emulsion for flat textile printing**

## DESCRIPTION

Photo emulsion for flat stamping, high mechanical and chemical resistance, as well as to usual solvents used in the printing process.

## APLICATIONS

Flat textile printing, fashion and home
Textile printing on garments, t-shirts, etc…

## PROPERTIES

With hardened emulsion:
- High resistance to Water based inks
- High resistance to Solvent based inks
- High mechanical resistance

## HANDLING

| | |
|---|---|
| Pot life for closed package | 12 months, between 5 to 35ºC |
| Pot life sensitized package | 6 – 10 days, between 18 to 26ºC |
| Expose life of coated screen | 16 – 18 hours |
| Recuperation of hardened screen | Very difficult |
| Approx. exposure time with 5000W halogen | 1+1 coats (43 mesh) / 55 seconds / aprox. |

## SPECIFICATIONS

| | |
|---|---|
| Kind of sensitizer | Dichromatic |
| Colour | Blue |
| Relative sensibility | High |
| Resolution | Mid |
| Viscosity | Mid |
| Solids content | 30% |
| Post Hardening | Yes, chemically with FIXAPLAST |

## STORAGE

Do not expose to temperatures below 5ºC or up to 35ºC. Expiration 12 moths for closed package and under correct temperature conditions.

## PACKAGING

Box 12 Kg. (12 x 1Kg.) / Box 20 Kg. (4 x 5 Kg.)



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## HOW TO USE

**Emulsion sensitising**
The emulsion must be sensitised with the supplied sensitizer. Allow the emulsion to settle for a minimum of 20 minutes so that air bubbles can escape. Keep the emulsion in a cool (20ºC / 68ºF) and dark place during the process.

**Screen preparation**
The mesh must be free of dirt, dust, ink residues, emulsion and ghost image. In order to achieve a good screen, previously degrease the mesh on both sides with **PREPAMASK** or **KAUSTIMASK S**, and then rinse thoroughly with water in order to remove any degreaser rests remaining on the screen.

**Coating procedure**
Depending on the kind of mesh, always start with 1 or 2 coats in both sides of the screen so as to fill all the mesh openings. Leave the emulsion dry completely in a temperature up to 40ºC.

In order to improve and to ensure a maximum quality of copy and mechanical resistance, we recommend finishing with wet-on-dry coats on the printing face to build up the emulsion coating to the desired thickness. Repeat the process of drying and coating as times as necessary so as to achieve the thickness wanted.

**Drying of the coated screen**
Dry the screen in horizontal position with the surface side down, under absolute darkness or safelight conditions, with a temperature of 30º – 40ºC (86º - 104ºF), a relative humidity of 30% - 50% and a moderate airflow. Avoid a not attenuate light day source during long time.
Temperature, relative humidity and airflow affect the drying time. The screen must be completely dried before exposure, that way we will achieve a higher resistance to ink and ink cleaners. Drying the screen at higher temperatures than recommended, or under different conditions than mentioned may lead to inconsistent results and varying resistance.

**Exposure**
Expose the screen with ultra-violet light at a wavelength of 350 – 420 nm. Use a halogen lamp to get the best results.. Due to the many factors that determine the exposure time, we cannot give accurate times.
The correct exposure time is the maximum time that achieves the optimum resolution; it must be determined by successive tests, with a step exposure or with a exposure calculator such as **CONTROL STRIP KS1.**
Under-exposure provides a inconsistent fasten and porosity of the emulsion. Over-exposure leads to a loss of detail. Correctly exposed screens withstand high tap water pressure during washout.

**Developing and washout**
Adjust the water temperature to lukewarm between 22ºC and 30ºC. Gently rinse the screen on both sides with water. After 1 or 2 minutes rinse thoroughly on both sides of the screen, with a higher tap water pressure, until the developing has finished successfully.

**Post-exposure**
In order to improve resistance, post-exposure time ought to be 4 – 8 times the original exposure time, always after developing and drying.



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**Post Hardening / Chemically**
Once the screen is completely dried, apply **FIXAPLAST** on both faces with a sponge, and leave the screen dry in a horizontal position under a temperature of 40ºC, during 2 hours approx.. It could also be hardened under a temperature between 22 to 25ºC within 24 hours.
Once the screen is hardened to remove it could be impossible.

**Touch-up / blackout**
Only for water-based inks resistant screens, touch-up with **BLOCODUR**.

**Decoating / emulsion removal**
Use emulsion removers such as **SCREEN STRIP** or **SERI CERO GEL** in order to remove the emulsion from the screen. Before removing the emulsion, make sure that the screen is completely free of ink using DISOLIX ECO or a ink residue cleaner.
If the screen has been chemically hardened with **FIXAPLAST**, its reclamation will be very difficult. **STARGEL** 35**0** could be used, although desired results cannot be ensured.

**Ghost image removal**
When under-exposed, the emulsion can cause haze or ghost image. To remove it, use **KAUSTIMASK S**, **STARGEL 350** o **ZERO GHOST**. Mixing **KAUSTIMASK S** with **DISOLIX GEL** is also a very effective way of removing ink haze.



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