

**ZOICO POLYMER 400C**

Photo polymer catalysed emulsion

**DESCRIPTION**

Photo polymer pre-sensitised catalysed emulsion ready to use. For solvent, water and mix inks. . Because of its very short exposure time is particularly suitable for CTS (computer to screen) with DLE (digital light engraving) and insolation by projection.

**RECOMMENDED APLICATIONS**

Textile printing, PLASTISOL	Very good
Textile printing, water inks	Very good. Needs hardening
Conventional printing, solvents inks	Very good
Conventional printing, mix inks	<i>Very good. Needs hardening</i>
For Projection and CST - DLE	Very good

**CHARACTERISTICS**

Kind of sensitizer	Photopolymer (SBQ)
Colour	Violet
Relative sensibility	Very fast
Resolution	Good.
Viscosity	Mid.
Solids content	34%
Post Hardening	Yes, with FIXAPLAST

**RESISTANCE**

Solvent inks resistance	Very good
Water-based inks resistance	Very good,if it is hardened.
Mixed inks resistance	Very good,if it is hardened.
Plastisol inks resistance	Very good
Mechanical resistance	Very good,if it is hardened.

**HANDLING PROPERTIES**

Pot life of packing with 10 at 35°C	1 year.
Life coated screen at 24°C	15 / 30 days.
Reclaiming of the screen	Good.

**PACKAGING**

12 Kg. box	12 units x 1 Kg.
20 Kg. box	4 units x 5 Kg.

**INSTRUCCIONS OF USE****Emulsion sensitising**

This kind of emulsion is already sensitised and ready for use.

**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**, **KAUSTIMASK S** or **STARGEL 350** 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 35°C.

To CTS-DLE systems or PROJECTION we suggest 1 pass by the exterior side of the screen or maximum 1 pass through both sides of the screen.



## ZOICO POLYMER 400C

Photo polymer catalysed emulsion

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 30° – 40°C (86° - 104°F), a relative humidity of 30% - 50% and a moderate airflow. Avoid white light sources.

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.

In the case of projection or insolation CTS-DLE, it will establish the correct exposure times by consecutive tests with a gradual exposure, until get the full resolution.

Under-exposure provides an 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 20°C and 26°C. 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 2 – 4 times the original exposure time, always after developing and drying. It only makes sense for short runs and if a posterior screen reclamation is wanted (without chemical hardening).

### 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 40-45°C, during 2 hours approx.. It could also be hardened under a temperature between 22 to 25°C within 24 hours.

Once the screen is hardened to recuperate it could be impossible.

### Blockout

For solvent based inks resistant screens, block out with **BLOCOFIX**. For water-based inks resistant screens, touch-up with the same emulsion.

### 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 350** 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** or **ZERO GHOST**. Mixing **KAUSTIMASK S** with **DISOLIX GEL** is also a very effective way of removing ink haze.



Technical Information

**KOPIMASK**  
TDS

## ZOICO POLYMER 400C

Photo polymer catalysed emulsion

### ADDITIONAL INFORMATION

[www.kopimask.com](http://www.kopimask.com)

Safety data sheet is available through Kopimask or your nearer supplier.  
KOPIMASK, S.A. Tlph. 00 34 93 863 93 50 Fax 00 34 93 864 70 37 e-mail [kopimask@kopimask.es](mailto:kopimask@kopimask.es)

The data here contained is the more accurate as possible, based on our present knowledge. Nevertheless, no guarantee regarding its reliability can be given as we cannot anticipate every possible application. For the same reason our products are sold without guarantee and under the condition that users will make their own tests in order to value if the product satisfies their necessities. KOPIMASK, S.A. reserves its rights to make any modifications without previous warning.



ISO 9001:2000