

**ZOICO COAT WRV** Diazo- photo-polymer emulsion**DESCRIPTION**

Diazo-photo-polymer emulsion for flat printing, with high mechanical and chemical resistance as well as to usual solvents in the process

**RECOMMENDED APPLICATIONS**

Flat textile printing ,fashion and home	Excellent. Needs hardening
Textile printing on garments , t-shirts, etc	Excellent. Needs hardening
Ceramics & glass printing	Good. Needs hardening

**CHARACTERISTICS**

Kind of sensitizer	Diazo-photo-polymer
Colour	Violet
Relative sensibility	Mid
Resolution	High
Viscosity	Mid
Solids content	38%
Post Hardening	Chemically with FIXAPLAST
Thick emulsion build up	Yes

**RESISTANCE**

Solvent inks resistance	High, if it has been hardened
Mixed inks resistance	High, if it has been hardened
Water-based inks resistance	High, if it has been hardened
Mechanical resistance	Excellent

**HANDLING PROPERTIES**

Pot life of packing at 5 - 35°C	1 year
Pot life of sensitised packing at 24°C	From 2 to 4 weeks
Pot life of emulsioned screen at 24°C	4 days
Recuperation of screen without hardening	Good
Recuperation of hardened screen	Very difficult. See STARGEL 300 technical data sheet

**PACKAGING**

12 Kg. Box	12 units x 1 Kg. with the sensitizer.
20 Kg. Box	4 units x 5 Kg. with the sensitizer.

**INSTRUCTIONS OF USE****Emulsion sensitising**

The emulsion must be sensitised with the supplied sensitizer (add destilated water in the flask and shake well until diazo becomes completely dissolved). Allow the emulsion to settle for a minimum of 20 minutes so that air bubbles can escape. Keep the emulsion in a cool(20°C / 68°F) 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 40°C.

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.

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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 an exposure calculator such as **CONTROL STRIP KS1**.

Under-exposure is slimy on the squeegee side during developing. 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 22°C and 30°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.

**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°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 remove it could be impossible.

**Touch-up / blockout**

Only 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 an ink residue cleaner.

If the screen has been chemically hardened with **FIXAPLAST**, its reclamation will be very difficult. **STARGEL 300** 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 300** or **ZERO GHOST**. Mixing **KAUSTIMASK S** with **DISOLIX GEL** is also a very effective way of removing ink haz

**ADDITIONAL INFORMATION**

Safety data sheet is available through Kopimask or your nearer supplier.

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