



ZOICO Q 503 S

Photopolymer emulsion for general use

DESCRIPTION

Ready to use photopolymer emulsion (no additional sensitizer) for general use. Suitable to work with solvent based inks, UV, plastisol's and water *.

APLICACIONES

General Graphic Printing
Conventional paper, paperboard and plastic printing
Textile printing
PVC and adhesives printing

PROPERTIES

Good copy quality.
Excellent resistance to solvent based and UV inks
*With over-exposing, resistance to water-based inks
Good mechanical resistance.
Easy to recover

HANDLING

Pot life for closed package	24 months, between 5 to 35°C
Pot life for opened package	12 months, between 5 to 35°C
Expose life of coated screen	3-4 weeks (dark room)
Recuperation of hardened screen	Good
Approx. exposure time with 5000W halogen	1+1 coats (90 mesh) / 20 seconds approx.

SPECIFICATIONS

Kind of sensitizer	Photo polymer (SBQ)
Colour	Blue
Relative sensibility	Very fast
Resolution	Good
Viscosity	Mid-low
Solids content	40%

STORAGE

Do not expose to temperatures below 5°C or up to 30°C. Expiration under appropriate conditions is 24 months.

PACKAGING

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





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HOW TO 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.

In order to improve and to ensure a maximum quality of copy and mechanical resistance, we recommend finishing with dry coats on the printing face to build up the emulsion coating to the desired thickness.

Repeat the process of drying and coating as many times as necessary 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, avoiding white lights

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 to ultraviolet light with a wavelength of 350 - 420 nm. Use a halogen lamp for best results. Because there are many factors involved in the exposure time, we cannot give precise times without doing a previous test.

Insufficient exposure is manifested in the lack of anchorage and porosity of the emulsion. Overexposure leads to a loss of detail in the frames and fine lines. Properly exposed screens support water pressure well during development.

Developing and washout

Adjust the water temperature 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.





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Post-exposure

In order to improve resistance, post-exposure time must be 1 – 3 times the original exposure time, always after developing and drying.

Once it is done, the screen recover can be more difficult.

Touch-up / blackout

For solvent based inks screens, retouch with **BLOCOFIX**. For screens resistance to water-based inks retouch 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.

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** to 50% is also a very effective way of removing ink haze.

