



ROTO 258

Rotary SBQ Emulsion

DESCRIPTION

Photopolymer SBQ emulsion thermo set. Ready to use. Rotating nickel cylinders. Especially suitable for DLE-LED systems due to short exposure times.

APLICACIONES

Rotary textile printing, fashion and home
DLE – LED engraving
LASER engraving
WAX JET engraving
NO suitable for INK JET engraving

PROPERTIES

High chemical resistance
High mechanical resistance

HANDLING

Pot life for closed package between 10° to 30° C	1 year
Pot life of sensitized cylinder between 18° to 24°C	4 weeks, in a dark place.
Use yellow light if possible.	

SPECIFICATIONS

Kind of sensitizer	Photo polymer SBQ.
Color	Pink
Relative sensibility	High
Resolution	High
Viscosity	Middle
Solids content	34%
Post Hardening	Thermo-setting at 190 °C approx.
DLE-LED exposing systems	Very good

STORAGE

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

PACKAGING

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

HOW TO USE

1. Emulsion sensitising
Photo polymer sensitized emulsion, ready to use.
Keep the emulsion in a dark and cool place.





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2. Cylinder preparation

The cylinder must be free of dirt. In order to achieve an optimal cylinder cleaning, previously degrease the cylinder on both sides with PREPAMASK and then rinse thoroughly with water in order to remove any degreaser rest remaining on the cylinder.

3. Coating procedure

To achieve a good coating cylinder consider the mesh of cylinder and if it is a manual or mechanical coating.

IMPORTANT:

The emulsion is already adjusted to the correct viscosity for the most of cylinders and systems. However, because for technical needs it must be more diluted, we advise use maximum 50 ml water per litter. We advise to begin with a lower quantity (25ml) to adjust the desired viscosity.

4. Drying of the coated cylinder

Dry the cylinder under absolute darkness or safelight conditions, with a temperature of 30° – 45°C under a relative humidity of 30% - 50% and with a moderate airflow for 30 to 60 minutes.

Temperature, relative humidity and airflow affect the drying time. The cylinder must be completely dried before exposure to achieve a higher ink and chemical resistance. Drying the cylinder at higher temperatures than recommended, or under different conditions than mentioned may result in obtaining unsatisfactory results.

5. Engraving exposure with CtS DLE-LED

Expose the cylinder with ultra-violet light wavelength of 350 – 420 nm. 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. Under-exposure leads to a lost of emulsion resistance. Over-exposure leads to a loss of detail. Correctly exposed cylinders hold high water pressure during developing.

6. Developing and washout

Adjust the water temperature to lukewarm between 20°C and 28°C. It is recommended an initial immersion washout, and then rubs softly with a sponge or cloth that does not harm the emulsion. Finally, rinse with pressure water.

7. Cylinder hardening

Once the emulsion is completely dried, the emulsion of the cylinder will be hardened at 190°C for 90 minutes.

It is important to know that temperatures below 180°C, the emulsion hardening can be deficient.

