



Screen Chemicals



# ROTOPOLIGEL PS ROSSO

Code N°160603

## PRODUCT DESCRIPTION

Photoemulsion for the realization of mirco-punched textile cylinders

## APPLICATION FIELDS

Photoemulsion indicated for printing with:

- Textile inks for roto-printing

## TECHNICAL FEATURES

- COLOUR = RED
- SOLID CONTENT = 42%
- VISCOSITY<sup>(\*)</sup> = about 12000 cPs (25°C)  
<sup>(\*)</sup> Before sensitizing

## APPLICATION PROCESS

Sensitizing	SENSITIZER 305
Application	<ul style="list-style-type: none"> <li>• Manual application</li> <li>• Single squeegee automatic app.</li> <li>• Double squeegee automatic app.</li> </ul>
Drying	25°C – 30°C for 60 minutes
Exposure	<ul style="list-style-type: none"> <li>• Ink jet</li> <li>• Film</li> <li>• Wax Jet</li> <li>• Laser ablation (CO<sub>2</sub>) systems</li> </ul>
Development	Into water for 15 minutes
Drying	<ul style="list-style-type: none"> <li>• Room Temperature</li> <li>• Air Oven (T<sub>max</sub> = 35°C)</li> </ul>
Curing	<ul style="list-style-type: none"> <li>• 180°C for at least 60 minutes</li> </ul>
Retouching	In case, products of the series <b>RO-TORET MONO</b>
Recovery	Before curing only: <ul style="list-style-type: none"> <li>• <b>SOLVENTE 610</b></li> <li>• Products of the series <b>POLISTRIP</b></li> </ul>
Package	5 Kg

### SENSITIZING:

Add **SENSITIZER 305** to the photoemulsion, and mix carefully. Dilute the mixture with demineralized water, according to the following indications:

- **MANUAL APPLICATION** (upwards):  
10-15%
- **SINGLE SQUEEGEE AUTOMATIC APPLICATION** (downwards):  
25-35%
- **DOUBLE SQUEEGEE AUTOMATIC APPLICATION** (downwards): no dilution

The de-aeration time is about 1-2 hours. The mixture has a pot-life of about 48 hours, if kept in a cold place (4-10°C) and away from light.

## GENERAL FEATURES

- Photoemulsion to be sensitized with Chrome Salts
- Good chemical-physical resistance
- Quite good mechanical resistance
- Excellent contour definition
- Indicated for every mesh
- Indicated for engraving of shades
- Particularly indicated for exposure through INK JET
- It may be exposed through FILM, WAX JET and LASER ABLATION (CO<sub>2</sub>) SYSTEMS

Apply the photoemulsion onto perfectly degreased, cleaned and dry cylinders, according to the following indications:

- **MANUAL APPLICATION** (upwards):  
4 layers with an intermediate drying of 15 minutes at 30°C after each one
- **SINGLE SQUEEGEE AUTOMATIC APPLICATION** (downwards):  
1 layer at a speed of 10 minutes for 1 meter
- **DOUBLE SQUEEGEE AUTOMATIC APPLICATION** (downwards): 1 1 layer at a speed of 1 minute for 1 meter

### DRYING:

After application, dry into air oven at a maximum temperature of 25°C - 30°C for 60 minutes. The so prepared cylinders, kept away from light and heat, may be exposed after a maximum time of 24 hours.

### EXPOSURE:

The exposure must depend on the applied quantity of photoemulsion.

This photoemulsion is indicated for engraving with the following systems:

- Ink Jet
- Film
- Wax Jet
- Laser ablation (CO<sub>2</sub>) systems

**It is recommended to make preliminary tests, in order to determine the right exposure times.**

### DEVELOPMENT:

Dip the exposed cylinder into a basin containing water for about 15 minutes. Wipe both the exterior and the interior side of the cylinder through a sponge, in order to help the cleaning of the motifs; then rinse abundantly off through a water jet.



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**DRYING:**

After curing, completely dry the engraved cylinder at room temperature, or into air oven at a maximum temperature of 35°C.

**CURING:**

Cure the cylinder into oven at 180°C for at least 1 hour. After curing, the cylinder takes a yellow ochre colour.

**RETOUCHING:**

The possible retouching may be made through the products of the series **ROTORET MONO**.

**RECOVERY:**

In case that the removal of the photoemulsion from the cylinder is needed, it is possible to use the products of the series **POLISTRIP** and **SOLVENTE 610**, before curing only

**IMPORTANT NOTE**

The information given in this technical sheet is not intended to be exhaustive and any person, using the product for any purpose other than that specifically recommended in this sheet without first obtaining written confirmation from us to the suitability of the product for the intended purpose, does so at his own risk.

While we endeavour to ensure that all advice we give about the product is correct, we have no control over either the quality or condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing to do so, we do not accept any liability whatsoever or howsoever arising for the performance of the product or for any loss or damage arising out of the use of the product.

The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.

**SPECIAL INSTRUCTIONS**

- Always test the characteristics of the products, before starting application.
- Always use the product in a yellow light shielded environment.
- The non-sensitized emulsion, if kept at a maximum temperature of 20°C, has a shelf-life of about 1 year.
- The sensitized emulsion, if kept at a temperature of about 4°C - 10°C, has a pot-life of 48 hours.