



## **RANGE OF OUR ENGRAVING PRODUCTON**

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- PHOTO EMULSION** : Direct Style photo emulsion for Rotary screens.
- SENSITIZER** : Sensitizer for Rotary photo emulsion with outstanding sensitivity and with significant dark room reation (USE - 1000 gm) Lacquer / 50 gm of sensitizer)
- PHOTO EMULSION (Flet Bed)** : Direct Style photo emulsion for flat bed screens.
- STRIPPER** : To strip the screens, which are used in the printing and strip out the lacquer from the screens.
- ENDRING REMOVER** : For removal of Endring from the Rotary screens.
- DEGREASER** : Safe degreasing concentrate for immersion to manual application
- CHOCK UP REMOVER** : For chock ups & washing before storing the screens.
- FLUFFIX** : For picking up loose fibres from the fabric.

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## **ROOPA ENGINEERS**

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## PHOTO EMULSION (FOR ROTARY SCREENS)

### PRODUCT DATA SHEET : UNIVERSAL ENGRAVING EMULSION :

<b>APPLICATION</b>	:	For Machine coating as well as Hand coating of Rotary of all mesh count
<b>PROPERTIES</b>	:	Easy, very smooth and uniform coating layer, Easy Development.
<b>COLOR</b>	:	PEACOCK BLUE OR SKY BLUE ..... BEFORE POLYMERISATION.  : GREENISH BLUE .. AFTER POLYMERISATION
<b>RESISTANCE</b>	:	Chemically and Mechanically Resistant to all printing Pastes after polymerisation for 2 Hrs. at 180° C
<b>DIRECTION FOR USE</b>	:	The Emulsion is to be well mixed with sensitizer one Day prior to use & Kept Overnight in cool and dry place. In order to get uniform & even Coating layer the emulsion can be diluted with distilled water. Use 50 ml of sensitizer for 1000 gm of emulsion.
<b>EXPOSURE TIME</b>	:	Since Local working condition can very Considerably such in respect of light source. Temperature & Relative humidity, we recommend that you determine your ideal exposure time.
<b>STORAGE</b>	:	Not sensitized # 12 to 20 months (5° - 20° C) Sensitized # 3 days when stored in cool dry place.
<b>PACKING</b>	:	Available in 10, 50 kgs. Carboys Sensitized supplied with Emulsion in 1 Kg. Bottle or 500 ml Bottle.

The data given in this specification sheet is based on the most recent information and actual test result. ROOPA ENGINEERS reserve the right to discontinue and / or make modifications & Improvements to the product in the interest of enhanced performance

**ROOPA ENGINEERS - AHMEDABAD**



**FOR TABLE SCREEN & FLAT BED SCREENS.**

Advancement in chemistry has enabled the manufacture of product like PHOTO EMULSION. Instead of using a simple PVA for coating a flat bed screen which can reproduce the SHARPEST Photographic details. This direct emulsion develops into smooth but very tough and Durable screen that results in LONGER PRINTING RUNS.

**APPLICATION OF PHOTO EMULSION**

Take 1 Kg. of Photo emulsion and 80 ml. of supplied sensitizer & stir well & filter.

**COATING OF THE SCREEN**

After the screen has ben degreased with the degreaser it is dried in dust free atmosphere & then coated in the dark room with the above sensitizer. A squeegee or a doctor blade is the most ideal appliance as it gives very even coating. Once the emulsion is poured into such doctor blade the coating starts from the outer surface of the screen from bottom to top. Second coat from outside is recommended for longer printing demands.

**EXPOSING THE SCREEN :**

It is most important to have yellow or red light in the dark room at 250° C room temp. is ideal. Exposure time depends upon the source of the light. Fluorescent light which is the most commonest light available in India.

**DEVELOPING :**

Developing of the Screen is done in dark room with cold water spray gun. After drying the screen under sunlight the screen is completed by side filling, joint touch up etc. with the same sensitized PHOTO EMULSION.

**STORE:**

Not Sensitized.....\*6Months.

Is Sensitized.....\*Use Immediately.

**PACKING :**

10/30 Kgs. H.D.P.E. Blue Carboy.



**PRODUCT INFORMATION**

**APPLICATION** : Stripping agent for engraved screen for all mesh counts after Polymerisation of emulsion.

**DIRECTION FOR USE** : Clean the stripping tank. If there is stripper from previous use then it can be allowed to remain. Add **STRIPPER** Carefully, let the screens be immersed up to 20-30 min. Rinse the screens be immersed with plenty of water, degrease screen before coating with emulsion.

**PRECAUTION** : Protect eyes, skin, clothes & avoid inhalation (Use of mask is essential for such protection). Working area should be well ventilated. In case of any spill on the body, wash immediately with plenty of water, & take Qualified medical treatment.

**COLOR** : SLIGHTLY BROWN IN COLOR

**STORAGE** : 1 to 2 months once container is opened.

**PACKING** : 35 Kgs. Blue H.D.P.E. Carboy



# ENDRING REMOVER

**ROOPA'S**

## SOFTENING & STRIPPING AGENT FOR ENDRINGS

- APPLICATION** : Pour **ENDRING REMOVER** in a plastic bucket till the liquid level is approx. 2 cms of Endirngs. Keep it for 10 to 20 min. & remove by jerking opens the endirngs. It is advisable to keep 10-15 endirngs at a time in the bucket for about an hour.
- COLOR** : LIGHTCOLOR
- STORAGE** : In H.D.P.E. Blue carboy of 35 Kgs.
- SHELF LIFE** : If airtight then 3/4 months.

.... NO WARRANTY ....

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## DEGREASER

Cleaning & Degreasing is a very important step for the Production of a good engraved screen.

### DEGREASING IS CARRIED OUT BY TWO METHODS

#### METHOD NO.: 1

Chromic acid is scrubbed for 10 - 15 - min on the Nicket Screen to be degreased and then the screen is hosed down with water. We do not recommend this process since it leaves an etching effect on Nickel Screen & Nickel Screen can not be used for more than 2-3 times. It also requires constant attention for properly carrying out the task.

#### METHOD NO.: 2

#### (APPLICATION FOR DEGREASER)

DEGREASER is used in the ratio 1:4 with water i.e. if the tank capacity is of 300 Kgs. Then 225 kgs. Of water is poured into the tank first followed by 75 kgs. Of DEGREASER. The screen is then immersed in the liquid for 10 min. & followed by through by washing with plenty of water & kept for drying in dust free atmosphere.

#### ADVANTAGES OF USING DEGREASER :

1. It reduces the excess use of PHOTO EMULSION since it has the tendency to Penetrate through the nicket screen to the inner surface so that max Photoemulsion is coated on the outer surface.
2. It helps in reducing development time.
3. It will not damage screens.
4. Increase screen life & reuse potential.
5. Reduce the pin-holes problems to a very great extent

**COLOR** : SLIGHTLY BLUISH.

**PACKING** : 35 Kgs. In Hope Carboys.

**SHELF LIFE** : Unlimited if the carboys is kept tightly closed

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# CHOCK UP REMOVER

**ROOPA'S**

## APPLICATION

: In case of any Choke up, that clogging may occur on cylinder. During printing, it prescribes an excellent solution to remove chock-ups instantly. It is also a precleaning solution before final storing. It also eliminates the use of Chromic acid.

## PACKING

: 1r. 35 Kgs. HDPE Carboys.

## STORAGE

: Unlimited if containers is kept. Closed after use.

.... NO WARRANTY ....

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## **FLUFFIX (FLUFF REMOVER)**

**APPLICATION** : For Removal of fluff, loose fibres, threads, dirt etc. from cotton fabrics before printing.

**PROPERTIES** : Tacky surface, capable of picking up loose fibres threads, fluff, Pollen material of fabrics till 2000 mtrs. Cloth.

**PHYSICAL STATE & COLOR** : Semi Liquid, Pourable, white in Color.

**DIRECTION OF USE** : If dilution is required then use water. Apply FLUFFIX on to rotary screen while using a brush, Dry in oven for 10 to 20 minutes at 1000C, When tackiness disappears. After long use in service, apply another coat of FLUFFIX on top the old coat.

**STORAGE** : 6 Months.

**PACKING** : 5 kgs. - 30 kgs. - 50 kgs.

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