TEXTIL CTR

APPLICATIONS
Rotary textile printing.

GENERAL CHARACTERISTICS
- Dichromate-sensitized photoemulsion for laser or conventional photo engraving
- Excellent adhesion to nickel screens
- Very high mechanical and chemical resistance
- Solvent-free formulation
- Optimum resolution for fine lines and half-tones

DIRECTIONS FOR USE
Handle under yellow safelight or low wattage tungsten lights. Avoid exposure to daylight, quartz / halogen lamps, cool white fluorescent lamps or discharge lamps.

Sensitizing and Mixing
Mixing is dependent upon the coating method used.
- For top to bottom coating, mix 1000 grams of Textil CTR, 100 grams of Chrome 2 and 350 grams of demineralized water.
- For bottom to to top coating, mix 1000 grams of Textil CTR, 100 grams of Chrome 2 and 100 grams of demineralized water.

For best results, use within 48 hours from mixing.

Screen Preparation and Degreasing
Thoroughly degrease the rotary screen prior to use with SaatiChem Direct Prep 5. Dry the rotary screen and store in a dust free, dry environment prior to coating.

Coating
Use with rotary screen coating equipment. For top to bottom method, using a single squeegee machine, we recommend a coating speed of 10cm/min to obtain an uniform deposit of emulsion on the screen from the top to the bottom. Apply only one coat. For bottom to top method by hand or machine, apply one coat and dry at 104° F (40°C). If you require a thicker stencil, apply to more coats and dry at 104° F (40°C).

Drying and Storage
Thoroughly dry the coated screen at a temperature of 104° F (40°C) in a well ventilated oven.

Engraving
For laser engraving, we recommend to expose the rotary screen to an UV lamp source before polymerization. Polymerize the screen and laser engrave it. For photo engraving, the exposure time depends on the light source and the mesh count. For example, expose a 125 mesh count coated top to bottom using a single squeegee for 6 minutes with blue fluorescent tubes or for 8 minutes using a 6 KW lamp. When different coating methods are used, you must adjust exposure times depending on the emulsion thickness.

Developing
Soak the engraved screen in a tank of water for 5 to 10 minutes or use an automatic washing machine. In either case, ensure a thorough final rinse.

Reclaiming
Before polymerization, you may remove Textil CTR using SaatiChem Remove 1, 2, 4, 5.

Polymerizing
Place the screen in oven at 356°-374° F (180°-190° C) for one hour, when the temperature is reached.

HEALTH AND SAFETY
Before using, refer to appropriate material safety data sheets.

PROBLEM SOLVING
Poor coating quality
- Properly clean, degrease and rinse screen to remove all residues and trace of chemicals
- Ensure that the emulsion has completely degassed before coating

Penetration on the inside surface of the screen
- Do not dilute emulsion with more than 35% of water

Products manufactured in Italy, USA and China
Italy: Ph.: +39.031.9711 - e-Mail: info.IT@saatichem.com
USA: Ph.: 1.877.296.7697 (Toll-free US & Canada) or Ph.: +1.847.296.7697 - e-Mail: info.US@saatichem.com
China: Ph.: +86.21.58999113 or Ph.: +86.21.58349020 - e-Mail: info.CN@saatichem.com

Poor details or difficulty washing out image

- Ensure emulsion and coated screens are handled in safelight conditions only
- Optimize exposure time and use only high quality film positives
- Do not store sensitized emulsion or coated screen at high temperatures
- Ensure that damp screens are not being exposed

Emulsion falls off, extreme pinholes or severe stencil breakdown during printing

- Only expose screens with an even and consistent coating thickness
- Ensure that stencil has not been severely underexposed
- Ensure mixed emulsion in not too old, has been correctly sensitized and has not been stored at high temperature after mixing

STORAGE

When sealed in the original container and stored in cool conditions, SaatiChem products will maintain their original properties for one year from the date of production.

PACKAGING

Available in five kilogram containers.

Products manufactured in Italy, USA and China
Italy: Ph.: +39.031.9711 - e-Mail: info.IT@saatichem.com
USA: Ph.: 1.877.296.7697 (Toll-free US & Canada) or Ph.: +1.847.296.7697 - e-Mail: info.US@saatichem.com
China: Ph.: +86.21.58999113 or Ph.: +86.21.58349020 - e-Mail: info.CN@saatichem.com

Italy, rev. 0/2002
File: st_textil_ctr_uk