

CTR

Photopolymer Emulsion

CTR is ideally suited for textile printers using direct emulsions who are seeking faster screen turnaround without sacrificing imaging quality.

- **No mixing**
- **Very fast exposing, fast drying**
- **Superior mesh bridging**
- **Excellent reclaimability**
- **High solids - lower cost per screen**
- **For Plastisol Inks**

Premium Quality

CTR photopolymer emulsion allows screen makers to obtain excellent image quality and durable stencils.



CHEMICALS REQUIRED

Chroma/Wet™ iSC
degreaser / adhesion promoter

Chroma/Strip™ iSC
ready-to-use stencil remover

RECOMMENDED

Chroma/Fill™ Red iSC
screen blackout

MATERIALS REQUIRED

Exposure unit
Clean work area
Washout area
Scoop coater

RECOMMENDED

Pressure washer

SAFETY AND HANDLING

CTR emulsion should be handled like any other pure photopolymer emulsion. This material is not hazardous when used within reasonable standards of industrial hygiene and safe working practices. Refer to SDS for further information.

STANDARD SIZES

quart, gallon, 3.5 gallon, 50 gal. drum

SPECIFICATIONS

Appearance: Red
Exposure: Very Fast
Solids: Approx 50% (no inert filters)
Viscosity: 5000 CPS

STORAGE

CTR emulsion should be stored at room temperature and should not be stored at temperatures above 80°F (27°C) or below 32°F (0°C). CTR emulsion should be stored in its original container.

Protect from freezing. CTR is not freeze/thaw stable.



INSTRUCTIONS

DEGREASE

Work up a lather on both sides of mesh to degrease. Be sure to use only a high-quality mesh degreaser, such as Chroma/Wet iSC designed specifically for this purpose. Rinse thoroughly.



COAT

Fill scoop coater with room temperature emulsion. Slowly apply first coat to print side. Next, coat squeegee side with 1-3 coats depending upon thickness required.

For most art, a 1X1 coating will be optimal. If a thicker stencil is required, apply additional wet-on-wet coatings from the squeegee side.



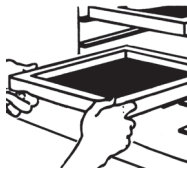
Note that one coat on each side with CTR is similar to four coats wet on wet with typical diazo based emulsions.

Note:

- CTR is presensitized. Stir before use.
- Return unused emulsion from scoop coater to pail as soon as possible. Emulsion dries quickly and will rapidly "skin over."
- Keep pail covered when not in use.

DRY

Dry screen thoroughly in horizontal position with print side down, using a completely clean and dark drying cabinet. Temperature should not exceed 110°F (43°C). Relative humidity should not exceed 50%; lower RH provides faster drying and allows for more efficient curing.



EXPOSE

Using the 10-Step Exposure Guide to determine proper exposure times for CTR, place emulsion side of photopositive in contact with print side of screen. Exposure times for CTR are very short and accurate exposure is important for optimal results. See exposure guidelines at right.



DEVELOP

Gently spray both sides of screen with lukewarm water, wait 30 seconds then gently wash print side of the screen until image is fully open. Rinse both sides thoroughly. Dry screen completely and you are ready to print.



RECLAIM

Apply a high quality screen reclaimer, such as Chroma/Strip iSC to both sides. Scrub area to be reclaimed with a stiff nylon brush to ensure entire surface is wet and let sit until stencil begins to dissolve. Remove stencil residue with pressure washer, then rinse with hose, thoroughly flooding screen and frame.



*Do not let reclaimer dry

EXPOSURE GUIDELINES

Note: Exposure times are suggested only as a guide. Individual exposure times may vary depending upon equipment used, bulb age, and other shop conditions. Suggested exposure times are as follows:

QUICKIMAGE LED EXPOSURE UNIT:

110 white mesh: 13-17 sec | 110 yellow mesh: 14-28 sec

Exposure times below were set for 5KW unit at 40" from frame. All screen mesh was dyed in color.

110 YELLOW POLYESTER MONOFILAMENT MESH

Coating Technique	Coater Edge	Suggested Min. Exp. Time
1X1	Round	30 sec.
1X2	Round	40 sec.
1X3	Round	50 sec.

230 YELLOW POLYESTER MONOFILAMENT MESH

Coating Technique	Coater Edge	Suggested Min. Exp. Time
1X1	Round	20 sec.
1X2	Round	25 sec.
1X3	Round	30 sec.

390 YELLOW POLYESTER MONOFILAMENT MESH

Coating Technique	Coater Edge	Suggested Min. Exp. Time
1X1	Round	15 sec.
1X2	Round	20 sec.
1X3	Round	25 sec.

* Exposure times were determined using the CHROMALINE EXPOSURE CALCULATOR.



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