DTS™ Z-1

Photopolymer Emulsion

DTS Z-1 hybrid photopolymer emulsion is designed for use with direct to screen applications. DTS Z-1 provides these additional benefits:

- **Excellent mesh bridging**
- **Sharp image quality**
- **Compatible with Plastisol, Water-based (including Discharge & HSA) inks as well as solvent cleaning**
- **Ideal for use with DTS exposure systems**

Premium Quality

DTS Z-1 direct emulsion provides screen makers both exceptional image quality and durable stencils.

CHEMICALS

RECOMMENDED

Chroma/Wet™ iSC
degreaser / adhesion promoter

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

MATERIALS

REQUIRED

Exposure unit
Clean work area
Washout area
Scoop coater

RECOMMENDED

Pressure washer

SAFETY AND HANDLING

DTS Z-1 emulsion should be handled like any other direct 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

Gallon, 3.5 gallon, 50 gal. drum

SPECIFICATIONS

Appearance:	Violet
Solids:	40%
Viscosity:	7,600 CPS

SPECIAL INSTRUCTIONS

Mild or screen safe chemicals are recommended to reduce potential for stencil lock-in.

STORAGE

DTS Z-1 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). DTS Z-1 emulsion should be stored in its original container.

Protect from freezing. DTS Z-1 is not freeze/thaw stable.

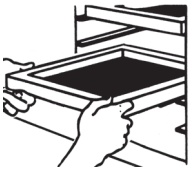
DTS Z-1 EMULSION

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.

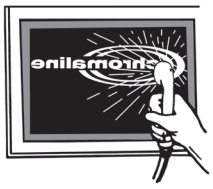
COAT
Fill scoop coater with room temperature emulsion. Slowly apply first coat to print side. Next, coat squeegee side with 1-3 coats depending upon thickness required. **For most art, a 1X1 coating will be optimal.** If a thicker stencil is required, apply additional wet-on-wet coatings from the squeegee side.

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



EXPOSE
Exposure tests must be performed to determine proper exposure times.

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