

Monoplast

Emulsion

Pure photopolymer direct emulsion designed

PC T Monoplast

- Very fast exposing, fast drying
- Superior mesh bridging
- Excellent reclaimability
- High solids — lower cost per screen

PC T Monoplast for use with plastisol inks is ideally suited for textile printers using direct emulsions who are seeking faster screen turnaround without sacrificing imaging quality.



MATERIALS

REQUIRED

Exposure unit
Washout sink
Clean work area
Scoop coater

RECOMMENDED

Drying cabinet
Pressure washer

CHEMICALS

REQUIRED

PC T Stencil Stripper
PC T Cleaner Mesh prep

RECOMMENDED

PC T Anti Ghost
PC T Screenfiller

STANDARD SIZES

1 liter and 5 liter

SPECIFICATIONS

Appearance: Aqua (Blue/Green)
Viscosity: 5000 CPS
Solids: 50% (no inert fillers)
Exposure: Very Fast (see reverse)

STORAGE

Shelf life is 24 months when stored at room temperature. Monoplast should not be stored at temperatures above 27 °C or below 0 °C. For best results, PC T Monoplast photopolymer direct emulsion should be stored in its original container.

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

SAFETY AND HANDLING

PC T Monoplast 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 MSDS.



Monoplast

INSTRUCTIONS

Work under yellow lights

DEGREASE

Using PC T Cleaner Mesh prep, work up a lather on both sides of mesh. Flood screen and frame thoroughly with water, then dry.



COAT

Slowly apply first coat to print side. Then coat squeegee side with one coat. If a thicker stencil is desired, additional coats may be applied to print side. Note that one coat on each side with PC T Monoplast is similar to four coats wet on wet with typical diazo based emulsions. Dry thor-

Note:

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

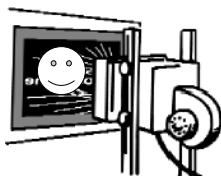


DRY

Thoroughly dry screen in horizontal position, print side down, using a totally dark, clean drying cabinet. Temperature should not exceed 43°C.

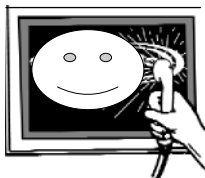
EXPOSE

Place emulsion side of photopositive in contact with print side of screen. Exposure times for PC T Monoplast 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 PC T Stencil Stripper screen reclaimer to both sides of screen. Scrub area to be reclaimed with a stiff nylon brush to ensure entire surface is wet and let it work a few moments until stencil begins to dissolve. Remove stencil residue with pressure washer, then rinse with garden type hose, thoroughly flooding screen and frame.



EXPOSURE GUIDELINES

Note: Exposure times are suggested only as a guide. Use the step exposure method to determine optimal exposure times. Individual exposure times may vary depending upon equipment used, bulb age, and other shop conditions. Exposure times below were set for 5KW unit at 1 meter from frame.

43 T YELLOW POLYESTER MONOFILAMENT MESH

Coating Technique	Coater Edge	Suggested Min. Exp. Time
1X1	Round	30 sec. (165 mj/cm ²)
1X2	Round	40 sec. (224 mj/cm ²)
1X3	Round	50 sec. (283 mj/cm ²)

90 T YELLOW POLYESTER MONOFILAMENT MESH

Coating Technique	Coater Edge	Suggested Min. Exp. Time
1X1	Round	20 sec. (107 mj/cm ²)
1X2	Round	25 sec. (135 mj/cm ²)
1X3	Round	30 sec. (165 mj/cm ²)

150 T YELLOW POLYESTER MONOFILAMENT MESH

Coating Technique	Coater Edge	Suggested Mid. Exp. Time
1X1	Round	15 sec. (78 mj/cm ²)
1X2	Round	20 sec. (107 mj/cm ²)
1X3	Round	25 sec. (135 mj/cm ²)

* Exposure times were determined using an EXPOSURE CALCULATOR.

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PC
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