

Reflex®

PHOTOPOLYMER IMAGE TRANSFER FILM

USER'S GUIDE

MATERIALS

Required

Exposure unit
Washout sink
Clean work area
Newsprint

Recommended

Drying cabinet
Pressure washer
Paint Roller

CHEMICALS

Required

Chroma/Brade™
mesh abrader
Chroma/Clean™
mesh degreaser
Chroma/Strip™
screen reclaimant

Recommended

Chroma/Wet
wetting agent
Chroma/Haze™
haze remover
Chroma/Fill™
screen blackout

SAFETY AND HANDLING

Avoid contact with skin and eyes. Refer to MSDS for further information.

STORAGE

Pre-Sensitized Reflex is light sensitive and should be opened only under yellow lighting. Chromaline recommends that unexposed film be stored in a closed container in a cool, dry area.

Storage at elevated temperatures may result in blocking of the film to itself, however, the integrity of the stencil's performance will not be compromised.

Reflex® Photopolymer Image Transfer Film

EASY HANDLING

- No developer chemicals, no "chill step"
- Easy reclaimability, no enzymes
- Very fast exposing
- Fast washout
- Lays flat, doesn't curl

PHOTOPOLYMER PERFORMANCE

- Very long shelf life
- Stays flexible (won't dry out)
- Good mesh adhesion
- Superior print durability
- Extraordinary print quality



Reflex® Photopolymer Image Transfer Film is a pre-sensitized magenta multi-layer film coated on a clear 50 micron polyester base. Diazo-free Reflex is a pure photopolymer, non-gelatin formulation. For use with plastisol, UV and solvent-based inks.

Reflex, applied using the indirect process, is available in rolls and custom cut sheets. Phthalate-free Reflex is manufactured without the use of solvent-based materials.



Chromaline Screen Print Products

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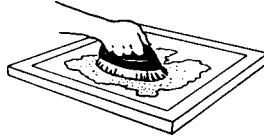
Reflex™

Works best on mesh counts over 200.

Instructions

MESH PREPARATION

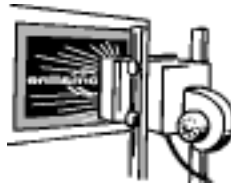
New mesh must be pre-treated with Chroma/Brade™ mesh abrader and thoroughly degreased with Chroma/Clean™ mesh degreaser. Ghost images in mesh must be removed with Chroma/Haze™. Chroma/Haze will also improve mesh adhesion.



EXPOSE

Cut the film to size place the polyester carrier in contact with the emulsion side of the photopositive. Expose with an ultra violet light source.

Reflex will reduce your exposure time by 30 to 40% compared to conventional indirect films. Perform a step exposure test to determine the appropriate exposure time for your setup. Mask off a section of film and expose in 25% time increments to obtain a range of exposure times.



SUGGESTED EXPOSURE TIME for 5KW Metal Halide at 1 meter is 7 - 15 seconds.

The longer the exposure, the thicker the stencil will become. Overexposure will cause poor adhesion to the mesh and details which appear to be open will not print. Very fine lines and halftones require reduced exposure.

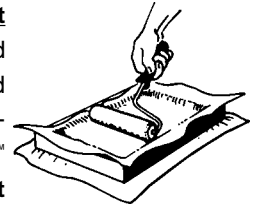
WASHOUT

The stencil is most effectively washed out with warm water. The warmer the water the faster the washout time becomes. Cold water can also be used, but will take longer to wash out. From a distance of 8 to 12 inches wash with line pressure available (but not strong pressure like that from a pressure washer). Wash until image is completely open and continue to wash for an additional thirty to sixty seconds, depending on size of image. **Note: Aggressive washout will harm the stencil.**



MOUNTING

Mount to a **thoroughly wet screen**. Mounting table should be clean and flat, and covered with a sheet of unprinted newsprint. **Note: Use Chroma/Wet™ wetting agent to ensure that mesh is totally and evenly wet.**



(1) Place **wet stencil** on print side of **wet screen** and lay stencil side down on mounting table. (2) Lay another sheet of newsprint on top of screen. (3) Either roll a paint roller across the newsprint or rub a rag gently across the newsprint. **Note: Too much pressure will cause image distortion.**

DRYING

Dry the stencil at room temperature or, for best results, use a fan for ten minutes (squeegee side). Film is dry when it looks uniform in density. If there is resistance or noise when a corner of the polyester is peeled, it should be dried longer. **Note: Excessive heat may cause curling of the image edges and may cause loss of image elements when the polyester carrier is peeled.**

REMOVE CARRIER

Ghost image on polyester carrier has no bearing on print quality. You are now ready to print.

RECLAIMING

Thoroughly remove all ink from screen, then reclaim with Chroma/Strip™ screen reclaimer. Apply Chroma/Strip to both sides of screen. If using squirt applicator, scrub with a stiff nylon brush to ensure entire surface is wet and let it work for 30 to 60 seconds. Pressure wash out.

HELPFUL TIPS

Solutions to Typical Problems

Problem 1: Stencil appears completely open, but the ink will not flow through the image area.

Solutions: (a) Increase washout time, or (b) Reduce exposure; stencil was overexposed.

Problem 2: Image details remain on polyester carrier when it is removed.

Solutions: (a) Overexposed; decrease exposure time. (b) Too much heat when drying. (c) Wrong mesh count for image. (d) Poor mesh preparation. (e) Uneven surface of mounting table.

FOR TECHNICAL SERVICE
Call Toll Free 1-800-328-4261



Exposure to yellow light should be kept at a minimum for all processes.