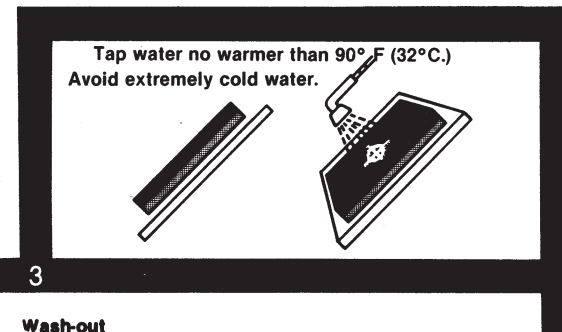
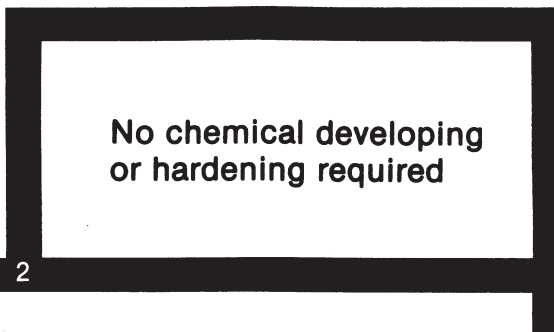
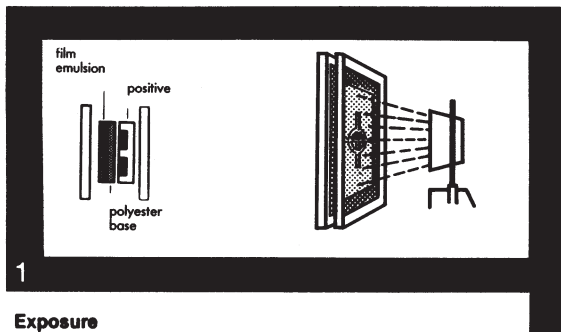


No Developing Film indirect photo-stencil system

Presensitized screen process
polymer film on 300-Gauge
Polyester base for all fabrics

Principal Characteristics

- NO PROCESSING CHEMICALS REQUIRED
- Available 42" & 52" wide rolls
- Cold water washout
- Excellent adhesion to polyester and all other fabrics



Exposure

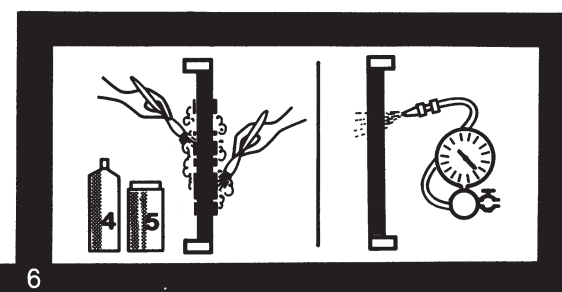
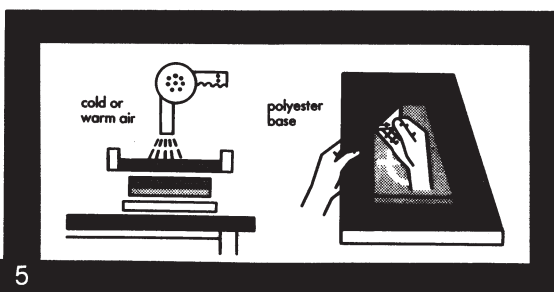
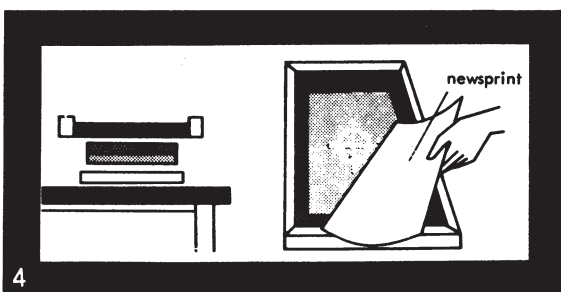
- Best results are achieved in a vacuum frame with a high-quality, right reading film positive.
- For light sources and exposure times see reverse side.
- A step wedge is recommended to determine the exposure time for your system
- This film has a wide latitude. But do not overexpose. Overexposure diminishes both adhesion and printing quality.

NOTE: Handle ULANO[®] Lux UP3 carefully. Avoid kinking to prevent delamination.

THIS IS A NO DEVELOPING PRESENSITIZED PHOTOFILM!

Wash-out

- Wash the emulsion under a firm spray. Washout temperature should be below 90°F.(32°C.). (For more accurate registration, match the washout temperature to the room temperature.) Continue to wash until drainage from the image is clear. Avoid extremely cold water. Wash-out in a tray is possible by rocking it continuously. Finish washing under a cool spray.
- Scum is caused by insufficient wash-out.



Adhering

Provide good contact by positioning the film emulsion up on a firm buildup smaller than the inside measurements of the frame. Use more pressure during blotting with newsprint than with other presensitized films.

Make sure the fabric is degreased properly and thoroughly. ULANO[®] No. 3 DEGREASER is recommended. Polyester and nylon must be pretreated mechanically with ULANO[®] MICROGRIT No. 2 or No. 500 silicon carbide. Roughening and degreasing can be combined in one step using ULANO[®] GEL 23.

Drying and peeling of plastic

- Dry fabric and plastic together. While the plastic is still on, apply ULANO[®] SCREEN FILLER No. 60 to block-out the open area.
- Use a fan to speed drying. Blow from the squeegee side. After film is dry, the plastic can be peeled with little resistance.
- Touch up when dry; make ready for printing.

Removal of stencil

- Remove ink from screen with solvent before it dries in.
- Apply stencil remover (ULANO[®] No. 4 LIQUID or ULANO[®] No. 5 PASTE) and let it stand for 5 minutes.
- Spray out with water; high pressure water spray is best.

ULANO LUX™ UP3

Principal characteristics

- No Developing
- Cold water washout
- Ink deposit can be controlled by exposure time from very thin to thick.
- Printed stencil can be stored after cleaning.
- Excellent resolution combined with ideal definition.
- Short exposure with wide latitude.
- Fewer touch-ups are necessary.

**Ideal for large size stencils
No developing
Cold water wash-out**

HINTS FOR PERFECT ULANO LUX™ STENCILS

Rules for exposure (see table at right)

- For exposures less than one minute, a light integrator is recommended.
- **Step wedges:** The exact exposure time is important. The indicated times are theoretical. Each lamp is different. Therefore a step wedge is necessary.
Proceed as follows:
Make 5 exposures with same positive, the theoretical exposure in the middle, left 2 steps with underexposures of 20 and 40% and right 2 steps with overexposures of 20 and 40%. Evaluate stencil or print it and compare the result with the positive.
- **Formula:** If the correct exposure time at a given distance is known by experience, the desired exposure time at a different distance can be calculated as follows: (factors are listed at right).

$$\text{desired exposure time} = \frac{\text{known old exposure time}}{\text{factor of old distance}} \times \text{factor of new distance}$$

- The longer the exposure time, the thicker the film; the shorter it is, the thinner. Use film under subdued or, preferably, yellow light. Protect from sunlight and actinic light sources. A dark room is not necessary.

Pretreatment for fabrics

- Polyester and nylon: Wet the fabric with water. Pour a thimbleful of **Ulano®** Microgrit No.2 or 500-grit silicon carbide: use a wet natural-fiber rag as a pad to scrub the fabric from the printing side. Then rinse with cold water. Follow by degreasing with **Ulano®** No.3 Screen Degreaser Liquid.
- Roughening and degreasing can be combined in one operation using **Ulano GEL 23**.
- Metalized mesh, natural silk, and stainless steel: Degreasing only (**Ulano®** No.3).

Improving the adhesion

Has the synthetic fabric been treated mechanically? Has the degreasing been done properly? Has a Step Wedge Test been made? Has the blotting been done only with newsprint (*unprinted* newspaper stock)? Has the stencil been allowed to dry thoroughly?

Ink suitability

All inks can be printed except those containing water, but avoid aggressive solvents and cleanup solvents which may contain water.

Exposure table for **ULANO LUX™** (see rules at left)

Indicated times are for 48 in. distance film-lamp	Exposure Time
	sec
Carbon arc lamps: 40 amps 2 carbons 60 amps 2 carbons 110 amps 2 carbons	250 170 90
Metal halide lamps: 800 watts 2000 watts 3000 watts 4000 watts 5000 watts 7000 watts	sec. 155 60 40 30 24 18
Pulsed xenon lamps: 2000 watts 5000 watts	sec 360 145
High-actinic fluorescent tubes: at closest possible distance	Min. 4-6
Distances other than 48 in.	
<p>Multiply the above indicated TIME for 48 in. by the factors listed below. Minimum distance between lamp and film for uniform exposure: should be 1.5 times the diagonal of the image.</p> <p style="text-align: center;">list of factors</p> <p style="text-align: right;">for 36 in: × 0.56 for 48 in: × 1.00 for 54 in: × 1.26 for 60 in: × 1.56 for 66 in: × 1.89 for 72 in: × 2.25 for 84 in: × 3.06 for 96 in: × 4.00</p>	



For technical information contact your nearest Ulano Office:

ULANO LUX™ UP3