

## SELF ADHESIVE PHOTO MASK RESIST

### ARTWORK

Set printer to darkest setting for optimum results

**Laser Printers** - Use Vellum Paper or Laser Film.

Vellum Paper can be sprayed with 'Krystal Coat' for darker image.

**Ink Jet** - Use Ink Jet Film.

Half Tones - We recommend Ink Jet Film or Laser Film

### SR3000 EXPOSURE

**NO NEED TO WORK UNDER YELLOW LIGHT CONDITIONS WITH SR3000**

**DO NOT EXPOSE TO SUNLIGHT** - Normal flouro or white light ok but do not use near un-covered window. Keep resist in light safe bag when not being used. **DO NOT** expose to sunlight until after wash out.

**EXPOSURE TIME** - Using Letralite Exposure Unit expose 3mil and 5mil resist for 20 seconds. Other light sources require time testing for correct times.

\* Multi tube flat bed exposure units will be considerably less time.

Over Exposure will cause difficult washout.

### Procedure

1. Place the emulsion/toner side of the artwork against the emulsion/dull side of the SR3000 resist.

2. The light source must go through the back of the artwork and onto the SR3000 Resist. The toner of the artwork should block the resist from the light. Lay the artwork and resist onto the Letralite cover mat so that the shiny side of the SR3000 is against the mat. Roll the Letralite mat onto the cylinder and expose the resist.

### WASHOUT

Proper wash out tools such as the ProBlast Trigger Jet is necessary to achieve good results.

Very poor water pressure can cause poor results. Pressure washers can be used but not necessary with SR3000 and normal water pressure.

Warm water (shower temperature) is best however SR3000 will work well with cold water wash out. **DO NOT** wash out in hot water. Max. Temp is 49°C. Make sure there is no sunlight in the washout area. Connect wash out hose to normal water tap. Your support plate should be white so the image shows up clearly.

1. Place exposed resist onto wash out board/support plate with the emulsion/dull side exposed to wash out spray. Position wash out board in a vertical position.

2. Wash out resist with Trigger Jet wash out hose or equivalent with a psi of 50-80. Or pressure washer at 400-1200 psi.

Spray in a slow even motion until the image develops. Hold nozzle 10-12cm away. Work evenly from the top to the bottom of the resist and repeat until image is completely washed out. **DO NOT OVER WASH.**

### Notes:

Ensure that the whole resist area is washed so as to expose the self adhesive surface.

Over-washing will cause weakening of the resist and may result in blow outs.

A 5cm x 5cm stencil should take approx 30 seconds to wash out. A full "legal" size stencil should take approx 2 minutes to wash out. If wash out times are longer. Over exposure has occurred.

### DRYING RESIST

Ensure resist is completely dry before proceeding to apply resist to product.

1. Remove excess water from resist to ensure fast and safe drying. Excess water on resist while drying may saturate and weaken resist. Use soft, damp blotting towel and gently absorb excess water or use rubber ,window style, squeegee to remove excess water.

2. Dry resist preferably with a small room blower heater. This should take approx 5 minutes. Or resist can be hung up and air dried on warm days.

Note: over drying the resist can cause the resist to be less tacky.

### STORAGE

When dried resist is to be stored for later use (more than 30 minutes after drying) the tacky resist surface should be covered with a silicon release paper such as PorBlasts 'Backing Paper'. SR3000 can be stored like this indefinitely.

### Application of SR3000 Resist

SR3000 is a repositionable resist before the protective carrier sheet has been removed.

Note: On cold days it may be necessary to warm the product to be etched slightly, taking the chill off the product, to assist with the resists adhesion.

1. Apply the resist to your product by firstly lightly pressing it down squarely onto the product. If repositioning is required remove the resist and reposition.

2. Once the resist is in the correct position apply pressure to the mask to ensure proper adhesion. Use a plastic burnishing tool to flatten the resist down and push out any air bubbles. Burnish from the middle outwards.

3. Remove the protective carrier sheet from the resist by flicking the corner with your finger nail, a knife blade or the plastic burnisher.

4. Check to make sure the resist is firmly adhered to the surface. Press down on the resist with your thumb if need be to ensure all areas are adhered.

ProBlasts Wire Burnishing Wheel may used as an extra precaution to pop any air bubbles in the fine membrane covering the etching area.

A small sprinkle of Aluminum Oxide may be applied and a very gentle rub over of the resist will also ensure all air has been released from the membrane.

### Masking up the non-etching area of the Product

The non-etch surface needs to be covered so as not to be etched during the blasting process. Cover with ProBlasts 'Easy Tear Gaff Tape' or make up a special mask. See ProBlast website Technical Tips for a procedure on making special masks.

### Etching your Product

We recommend using Aluminium Oxide 150 grit as a universal sized grit for all projects.

Blasting Pressure:

Pressure Pots 25-35 psi for most products. Maximum Pressure 60psi.

Siphon Systems should be set at 40-80 psi

1. Hold the nozzle 10-15cm away from the object and perpendicular to the surface.

2. Start at the top of the product and work your way across and down in an even slow movement. Do not stay in one area, keep moving. Once an overall coverage has been made, etch over the area again from a different axis.

3. Check to make sure the product has been completely etched.

4. Shake off excess abrasive before removing from cabinet.

### Removing Resist

SR3000 is easily removed by peeling it off the product. It can also be soaked in water for 5 minutes before removing the resist.

### Paint Filling Tips

Use quick dry enamel or Acrylic paints. Do not used cheap, low quality Paint. Automobile paint works very well. Leave resist on after blasting if paint filling is required.

1. Ensure the etched area is free from abrasive dust.

2. Spray 3 light coats allowing drying in between.

3. Leave to dry for at least 1 hour before peeling off the main part of the resist. Leave for a further 30 minutes before removing the small bits of resist from the product.

### Acrylic and other plastics etching

Acrylic surfaces can be etched but need special conditions to achieve a good result.

1. Apply resist the normal way. Do not warm the product up. Make sure the resist has cooled down before applying.

2. Ensure that you do not etch too closely to the product.

3. Etch only until sufficient etching is achieved.

4. Peel the resist off straight away to avoid the resist being difficult to remove.