

User's Guide and Datasheet

SRX23

A Clear Choice for Production

RAYZIST

Photomask, Inc. ®

Introduction

SRX23™ is an adhesive coated film for the production user that demands higher blast pressure and deep carving. The SRX23 is repositionable for easy image placement with superior blast resistance yet perfect choice for color fill applications with easy mask removal.

SRX23 has exceptional blast resistance to endure coarse grit with high pressure that is often used in production facilities while maintaining detail in images.

The **SRX23™** is available in 5MIL (125µ)

Requirements

SRX23™ can be processed easily with a UV light source, printed artwork on inkjet film and water. Please use our Hand Washer or Automatic Washout Unit to develop the photoresist properly. A pressure roller is necessary to bind the processed photomask to the substrate surface. We can strongly recommend our Wire Wheel Brush; this hand-held tool releases air trapped between the substrate and the photomask.

Artwork: Prepare as mirrored or reflected images prior to printing. For easy removal of mask from plastic carrier, place a 3pt border around image. This will create a peel line.

Room Lighting

You do not need a darkroom or yellow lighting to use **SRX23™**. The film can be safely handled in white fluorescent lighting for a limited time. Avoid any room or area that has direct or indirect UV light such direct or indirect sunlight. Sunlight will expose the film in a matter of seconds.

Shelf life

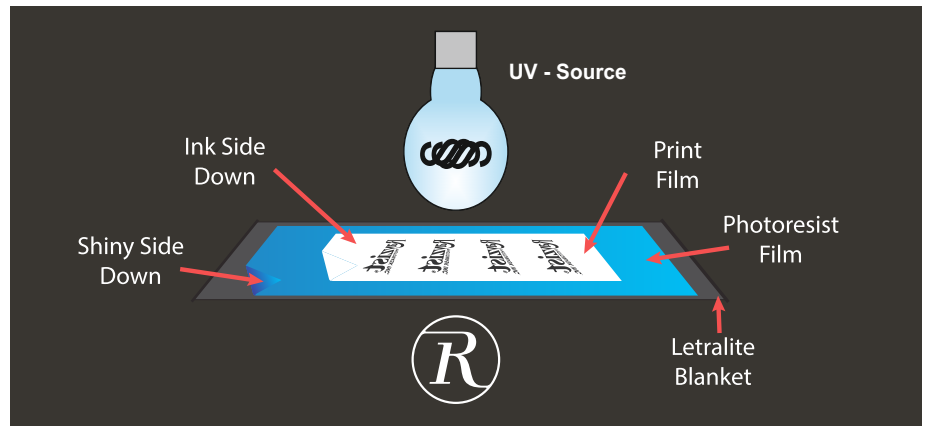
Conservatively, 14 months at room temperature.



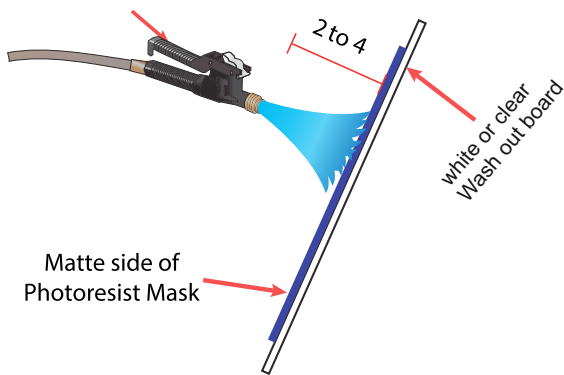
Image Transfer

Work under florescent lights for 1-3 minutes or no time limit under UV safe yellow or red lights. For optimum results film should be handled in safe lighting conditions.

- Placing **SRX23™**- The dull side will face up
- Place the artwork with the printed side against the dull side of the **SRX23™**
- A vacuum frame or compression frame should be used to ensure firm contact between the artwork and the film during exposure.



Wash out process



Position the exposed **SRX23™** in an upright vertical position with the emulsion side (matte / dull) facing outward. Use a clip for a clear board or a magnet for a white metal board to attach the film. Avoid any backlight or direct sunlight. The water temperature should be between 15-60°C.

Please use a flat spray spray nozzle. Do not focus on one particular area to ensure an even wash.

Wash until the image becomes clear. The washing should be done in max. 3 min.

Drying

- Remove excess water from mask to accelerate drying times.
 - Dry the photomask 20-40 minutes at room temperate. The photomask should be uniform in color. High humidity will extend the drying time. With our film dryer drying will take 10 minutes at 50°C.
 - **SRX23™** can be laid flat (carrier / glossy side down), or hung to dry.
- Storing processed **SRX23™** for later use is absolutely no problem!



Applying the photomask

SRX23™ is re-positionable. Remove the ready made mask from 3pt border line peeling mask from the plastic carrier and apply the sticky side of the photomask to the cleaned substrate. You will need to fix it with a pressure roller and our wire wheel brush. Remove any air between the photomask and the substrates to avoid blowing off the mask while sandcarving.

Sandblasting

We recommend to use 150 - 120 mesh Aluminum Oxide or Silicon Carbide. The needed pressure will depend on your sandblasting system. You should start with 40 psi and increase the pressure if needed.

Removing the photomask

You can peel the film off manually or with a high pressure washer.

If the items are small enough you can also take hot water to let the sandblasted items soak for a while, so the film comes off on it's own.