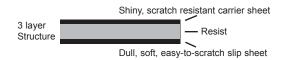


IKONICS Imaging and DuPont®.

WELCOME TO IKONICS IMAGING:

Thank you for purchasing RapidMask High Tack dry-processing, self-adhesive photoresist film. With no washout required, no adhesive application and an effortless slip sheet and carrier sheet removal, RapidMask High Tack will provide a simple, creative and productive sandcarving experience.



Required Materials

- Computer Generated Artwork
- UV Exposure Unit
- · Sandcarving Cabinet and Abrasive Media

Safety and Handling

Refer to MSDS for safety information.

Storage

Store RapidMask High Tack in a cool (70°-80°F, 21°-26°C), dark, low humidity (<70%), or air conditioned environment to maximize shelf life. Extended storage times outside of these conditions can adversely affect film performance with reduced adhesion and/or blast resistance. As an option, film can be refrigerated to extend shelf life. (DO NOT FREEZE). RapidMask High Tack should be stored in its original package when not in use. Store rolls and sheets horizontally.

Light Sensitive Product

While RapidMask High Tack has good white light stability (up to 2 hours working time under most indoor lighting), it is best to use the film in yellow safe light conditions until blasted. UV filtered yellow fluorescent lights or UV filter sleeves over white tubes are sufficient. Contact IKONICS Imaging for more information on UV filtration.

NOTE: RapidMask High Tack remains photosensitive throughout the entire process. Keep film covered or use in safe light to prevent unwanted exposure.

Artwork

There is nothing more important than starting with good quality artwork. RapidMask uses photo negatives vs. photo positives.

NOTE: The clear areas of the artwork will etch.

Clear = Blast. Unexposed RapidMask protects the substrate during blasting. Artwork should include at least a 1/4" black border, which will assist in the removal of the carrier sheet and for masking off. Artwork can be made in-house using a standard inkjet printer and IKONICS Imaging Water Resistant Accu-products, or PositiveFX drafting film with a laser printer. A toner enhancement may be needed to darken the printed areas with some laser printers when using PositiveFX or other similar materials. Photo negative artwork should be right-reading - toner or printed side up for front blasting, and right reading-toner or printed side down, for back blasting. For best results, dark areas of the artwork

must be completely opaque.

Film Exposure When UV light

passes through the clear areas of the artwork, RapidMask High Tack turns BLUE and brittle in those areas. The unexposed film (black area of artwork) remains green and rubbery. DO NOT underexpose RapidMask High Tack. The film must have sufficient exposure energy to become brittle. Since exposure units are not alike, follow the detailed set up instructions to ensure consistent results.

Setting Up Your Exposure Unit (test)

Cut several small strips of RapidMask High Tack approximately 0.5" W x 3" L. Place one strip of film under a clear piece of artwork into your unit, so light passes through the artwork first. If using a Letralite, begin with a 120 sec. exposure time. Remove strip of film and note that it turned blue. Now bend it in half with the slip sheet out and crease it. It should make a "snap" sound when creased. If not, more exposure time is needed. Repeat test using a new strip of film adding 10 sec. more exposure for each strip tested. Repeat this test until the film is dark blue and snaps when creased. This is the proper exposure time setting for RapidMask High Tack in your particular unit.



NOTE: The slip sheet side can be identified as the "softer" side when scratched with a fingernail, or as the inside layer within the natural curl of a sheet of RapidMask. The carrier side can be identified as the harder, "shiny" side and cannot be scratched with a fingernail.

Exposing RapidMask High Tack

Place the printed side of the artwork against the slip sheet side of the film. Position so UV light travels through the artwork onto the RapidMask High Tack.

Exposure Guidelines for Various Units Exposure Light Source Approximate Times 60 integrator units 5 kw Metal Halide 80 integrator units 1 kw Metal Halide Letralite Exposure Unit w/ 25 watt bulb 2 minutes Letralite marked "E"

Exposure Unit

w/ 15 watt bulb 2 minutes

Letralite marked "N" **Exposure Unit**

w/ 15 watt bulb 3 min. 30 sec.

*Letralite model can be found on the bottom of the exposure unit. A sticker will indicate "E" or "N".

RapidMask High Tack Application

NOTE: Used alone, RapidMask is not a suitable film for use with acrylic substrates. The peel after sandblasting is difficult, and becomes more difficult if the film and substrate are soaked in water. Please contact your IKONICS Imaging representative for further details.

NOTE: For applications excluding glass, RapidMask may stain the substrate. The staining appears within 2 hours of film application to substrate. Testing the substrate is highly recommended. Please contact your IKONICS Imaging representative with further questions.

To minimize air entrapment and allow for proper positioning of RapidMask, the "hinge" method is recommended. Clean the substrate using glass cleaner (IKONICS Imaging Glass Cleaner recommended) to remove dust and finger prints. Trim any exposed (blue) edges prior to application. Place the RapidMask film slip sheet side down on the substrate BEFORE removing the slip sheet and position it exactly where it needs to be. Tape along one of the edges using masking tape to hold film in place. Hinge or flip the film back along the taped edge and remove the slip sheet by placing a piece of

tape on one corner and peeling back to reveal the adhesive surface. Carefully move the film back over the substrate, but keep it elevated so it does not prematurely come in contact with the surface. Starting at the taped edge, squeegee the film down onto the substrate. Squeegee the entire surface well to ensure good adhesion. Remove the top carrier sheet by placing a piece of tape on one corner and peeling back. Carefully mask edges prior to abrasive etching.

To enhance the ability to reposition the mask and to eliminate potential air bubbles, the water application method is recommended: After removing the slip sheet, spray the RapidMask (adhesive side) and substrate with a light mist of water. Place the film on the substrate and when positioned correctly, squeegee the carrier side from the center out to remove water between the substrate and the film. Using a piece of tape on a corner, remove the carrier sheet and carefully mask all edges. Let sit 15 minutes to optimize adhesion before starting to etch.

Sandcarving

Place the object to be etched inside the sandblasting cabinet. Hold the blasting nozzle 4 to 6 inches away from the object and perpendicular to the surface. Begin blasting using a backand-forth motion over the entire surface. Keep nozzle moving at all times. Do not concentrate on any one area. During the first few passes, you will notice the blue areas of the film will lighten and then disappear. Continue blasting until all "blue" areas of the film have disappeared and desired etched pattern / depth is achieved.

NOTE: RapidMask High Tack can be blasted using a siphon or pressure-pot sandblast system. Recommended blasting pressure is between 30 - 40 psi when using a pressure-pot system or 60 - 80 psi when using a siphon system. For most applications, Silicon Carbide 180 grit is recommended. Always follow the safety precautions recommended by the sandblast equipment manufacturer and grit supplier.

RAPIDMASK HIGH TACK REMOVAL OPTIONS

- Peel or rub off while rinsing under warm water to prevent scratching of substrate.
- Soak in warm / hot water.

For a copy of our helpful processing hints guide, please refer to www.ikonicsimaging.com or contact your IKONICS Imaging representative at 1-800-643-1037.

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