

DESCRIPTION

Rhino Shine™ Ultra is a fast air drying, single component, acrylic coating that provides excellent moisture and environmental protection for sprayed urethane elastomer bed liners and substrates. The final film demonstrates excellent flexibility and is easily repairable. This unique acrylic/polyurethane is a high gloss, chemical-resistant coating that offers outstanding gloss and a smooth finish to a variety of industrial and commercial substrates providing good chemical protection.

PROPERTIES OF LIQUID RHINO SHINE™:

Specific weight, (lb. per gal.)	8.3	ASTM D-1475
Solids Content, % by weight	41 ± 3	Fed-Std-141, Meth.4044
Viscosity, centipoise	197 ± 15	Fed-Std-141, 4287
Flashpoint, 0°C (0°F)	>100 C(200)	ASTM D-56
VOC (grams / liter)	< 100 g/l	
Drying Time to Touch	10 minutes	
Recommended Coating Thickness	1 – 3 mils	
Time Required to Reach Optimum Properties	7 days	
Thinner, if needed (Brushing or Spraying)	Water	
Shelf Life at Room Temperature	12 months	

PROPERTIES OF CURED RHINO SHINE™:

Thermal Properties:

Continuous Use Operating Range °C (°F)	-65°C (-85°F) to 125°C (257°F)
Coefficient of Thermal Expansion - DMA	55ppm / 0°C
Glass Transition Temperature - TMA	14°C
Young's Modulus - DMA	1000 psi

Physical Properties:

Clarity	Transparent (May be Pigmented)
Build per Dip, mils,	1 – 2
Flexibility,	Excellent
Adhesion	Excellent ASTM D-2197
Weather Resistance	Very Good

Electrical Properties:

Dielectric Withstand Voltage, volts	>1,500	MIL-I-46058C
Dielectric Breakdown Voltage, volts	7500	ASTM D-149
Dielectric Constant, at 1MHz and 25°C	2.5	ASTM D150-65T
Dissipation Factor, at 1MHz and 25°C	0.01	ASTM D150-65T

Chemical Properties:

Main Constituent	Acrylic
Fungus Resistance	Passes ASTM G21
Resistance to Chemicals	Fair to Good

APPLICATION OF RHINO SHINE™ ULTRA:

Cleanliness of the substrate is of extreme importance for the successful application of a conformal coating. Surfaces must be free of moisture, dirt, wax, grease and all other contaminants. Contamination under the coating will cause problems that may lead to assembly failures. When applying to a sprayed elastomer substrate use Rhino Degreaser to remove all oils and grease contaminants. Thoroughly wash or power wash substrate and allow to dry before applying Rhino Shine™.

RHINO SHINE™ MAY BE APPLIED BY BRUSH OR SPRAY.

Spraying

Rhino Shine™ can be sprayed using conventional spraying equipment. As a rule, the addition of water for thinning is not necessary but can be added to assure a uniform spray pattern resulting in pinhole free film. The amount of thinner and spray pressure will depend on the specific type of spray equipment used. The spraying should be done with the operator wearing the proper PPE.

Brushing

Rhino Shine™ may be brushed. Uniformity of the film depends on component density and operator's technique.

Caution

Avoid inhalation of vapors or spray. Use only in well-ventilated areas. Avoid contact with skin and eyes. If contact occurs, wash with soap and water. If swallowed, call physician immediately. Refer to MSDS before use.

STORAGE

Rhino Shine™ should be stored at room temperature, away from excessive heat, in tightly closed containers. Rhino Shine™ may be stored at temperatures of 50 – 100°F. Avoid direct sunlight. Prior to use, allow the product to equilibrate for 24 hours at 65 – 90°F.

SAFETY PRECAUTIONS OF RHINO SHINE™ ULTRA:

Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS and Safety Manual for detailed information and handling guidelines.

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to ultimate end-users and processors. Because of numerous factors affecting results, **Rhino Linings Corporation makes no warranty of any kind, express or implied,** other than that the material conforms to its applicable current Standard Specifications. Rhino Linings Corporation hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Rhino Linings Corporation for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

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