



Rhino™

Rhino™ 9000 100% Solids Epoxy Mastic Data Sheet



ISO 9001:2000
FM62236

DESCRIPTION:

100% solids two part epoxy system for bonding and filling concrete and other substrate. Rhino 9000 offers long work life, quick cure, good chemical resistance and low odor during application. Rhino 9000 is a syntactic, light weight mastic with excellent thixotropy, it trowels easily on vertical and overhead surfaces. Easy to use 2:1 volume mixing and color coding ensure a proper mix every time. DOT and IATA non-corrosive for ease of transportation.

SUGGESTED USES:

Rhino 9000 is intended primarily as an adhesive for bonding similar and dissimilar substrates. Due to its moisture tolerance and chemical resistance, this system finds wide application in concrete repair. When used in conjunction with Rhino 1501 primer, the material tolerates hydrostatic pressure(s) typically found in concrete sewer and wastewater applications.

BENEFITS AND FEATURES:

- Easy to use 2:1 mix ratio
- 40 – 70 minutes of working life (time varies according to temperature and batch size)
- Use at temperatures above 45°F (7°C) and less than 100°F (38°C)
- Typically cures in 6 – 8 hours at 77°F (25°C)
- Gray mixed color

LIQUID PROPERTIES OF RHINO 9000:

Weight per Gallon, Component “A”	7.7lbs
Weight per Gallon, Component “B”	6.5lbs
Viscosity	Thixotropic

DIRECTIONS FOR USE:

Thoroughly mix parts “A” and “B” until a consistent gray color is achieved. If applying to damp, corroded concrete, first apply Rhino 1501 primer (see Rhino 1501 data sheet for more information). Apply mixed material by trowel or putty knife to desired thickness. Allow approximately 8 hours at 77°F to allow “green” strength to develop. Full properties develop in 7 days at typical ambient temperatures.

CURED PROPERTIES OF RHINO 9000:

Peel Strength	34 – 45 (pli)
Bond Strength, CRS	1,850 (psi)
Bond Strength, Concrete	>400 (psi with 100% concrete failure)
HDT °F	145
Thermal Conductivity	.44 (BTU/ft/h-ft ² per °F)
Impact Resistance	>150 inch/lb
Tensile Strength	5,000 – 6,000psi
Tensile Elongation	5%
Tensile Lap Shear	3,000 (psi)
Water Absorption	<1% (24 hours)

HOW SUPPLIED:

Rhino 9000 is packaged in pre-measured kits. FOB San Diego, CA.

SAFETY PRECAUTIONS:

Health Considerations: Consult the Rhino Linings® Material Safety Data Sheets.

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

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SAFETY PRECAUTIONS OF RHINO™ 9000 (continued):

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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