



# Rhino™ Non-Sag Epoxy

## Data Sheet



ISO 9001:2000  
FM62236

### DESCRIPTION:

Premium quality, 100% solids epoxy resin binder specifically designed for use as a high strength general purpose repair compound, binder and adhesive for concrete. Contains no solvents (zero VOC) or carcinogens and has minimal odor to assure low toxicity and ease of application. The non-sag consistency of the material helps provide an exceptional bond to concrete surfaces. The cured Non-Sag Epoxy develops high compressive and flexural strength for optimum performance.

### SUGGESTED USES:

- Concrete repairs and resurfacing
- Sealer “cap” for crack injection applications
- Back-fill and waterproofing of holes and other repair areas
- May be used to bond wood, steel, and other dissimilar products to concrete substrate
- Permanent potting compound for setting dowels, flanges, and other fittings into concrete

### TECHNICAL DATA:

Solids by Volume	100%
Volatile Organic Content (VOC)	0lbs/gal
Mixing Ratio	1:1 by volume
Viscosity	Non-sag paste
Pot Life	45 – 60 minutes at 77°F
Application Temperature	40°F minimum, 100°F max
Maximum Re-coat Time at 77	24 hours
Dry To Touch at 77°F	4 – 6 hours
Light Traffic at 77°F	10 – 12 hours
Full Cure at 77°F	7 Days

Complies with ACI Standard 503.1 - 4 and ASTM C-881-90 Type I, II, IV, V, VI and VII. Grade 4, Class B,C,D,E and F. Cures in presence of moisture and humidity. Resin non-crystallizing.

### PHYSICAL PROPERTIES OF CURED SYSTEM (CURED 7 DAYS AT 77°F):

Compressive Strength (psi) 5	10,000 – 11,000	ASTM D69
Flexural Strength (psi)	9,000 – 10,800	ASTM D790
Tensile Strength (psi)	6,000 – 7,000	ASTM D638
Tensile Elongation (%)	4.0	ASTM D638
HDT (F)	140	ASTM D648-264
Bond Strength (psi) to concrete	>300, w/ 100% concrete failure	
Water Absorption (% gain) 24 hrs	< 1	
Shore D Hardness	82	

### HOW SUPPLIED:

FOB San Diego, CA. Non-Sag Epoxy: 2-Gallon, 10-Gallon and 100-Gallon Kits.

### DIRECTIONS FOR USE:

Follow general surface preparation and application procedures specified in ACI 503.1-4.

### CONDITIONS TO AVOID:

- Do not apply to concrete less than 30 days old.
- Do not apply to concrete with curing or sealing membranes.
- Do not apply to base concrete at a temperature less than 50°F

### SURFACE PREPARATION:

Concrete surfaces must be structurally sound and free from contaminants such as dust, oil or dirt. Surfaces must be shot blasted or mechanically abraded to achieve a minimum 5 mil profile. Coated surfaces must be mechanically

## SURFACE PREPARATION OF RHINO™ NON-SAG EPOXY (CONTINUED):

cleaned and abraded with 60 – 80 mesh sandpaper and approved by the manufacturer before coating. A calcium chloride test is recommended and hydrostatic pressure must be <5psi before epoxy coatings application. Free-standing water must be removed.

### MIXING:

Thorough and complete mixing is critical, a Jiffy mixer is recommended. Proportion each component at the ratio of 1 part A (resin) to 1 part B (hardener) by volume and mix well for 3-5 minutes. In case of pigmented material, no stripes or color variation should be visible. Use an up and down motion, scraping the mixing container sides and bottom. Mix no more material than may be applied in 30 minutes.

### CHEMICAL RESISTANCE GUIDE:

#### (Splash and Spillage)

LEGEND: [E = Excellent, G = Good, F = Fair]

Reagent	Rating/Comment
Xylene	E
Toluene	E
1,1,1 Trichloroethane	E
MEK	G
EB (Ethylene Glycol Monobutyl Ether)	F
Ethyl Alcohol	F
Methyl Alcohol	G
Water (de-ionized)	E
5% Detergent Solution	E
10% Sodium Hydroxide	E
50% Sodium Hydroxide	E
10% Sulfuric Acid	E
70% Sulfuric Acid	G
10% Hydrochloric Acid	E
5% Acetic Acid	G
10% Acetic Acid	F
Skydrol	F
Synthetic Gasohol	E

### 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.

#### 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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**Rhino Linings Corporation**  
9151 Rehco Road, San Diego, CA 92121  
858-450-0441 • Fax 858-450-6881  
1-800-422-2603  
www.rhino linings.com

Rhino Linings Australasia Pty Ltd ..... +61 7 5585 7000  
(Asia and Australia)  
Rhino Linings Canada, Inc ..... 1-866-447-1471  
Rhino Linings Europe ..... +49 6103 936474  
(Africa, Europe and Middle East)  
Rhino Linings Latin America ..... +52 55 5632 0195  
(Mexico, Caribbean, Central and South America)