



Rhino® 1501

Pigmented Water-Based Epoxy Primer/Coating

Data Sheet

Part # 1501

DESCRIPTION:

Rhino® 1501 is a pigmented, waterborne, general purpose epoxy primer/coating using 1:1 (equal) volumetric mixing of resin and hardener that is easy to mix, easy to use and provides superior hide and coverage. It is applied over concrete and other substrates by brush, roller or spray equipment. Rhino™ 1501 Primer/Coating dries quickly, and is typically “lacquer dry” (dust free) within 60 – 90 minutes. The unique lacquer dry cure allows Rhino™ 1501 to be recoated quickly. The material has a long work time (2 – 3 hours) which allows larger batches to be mixed. Rhino™ 1501 cleans up easily with soap and water from hands and tools.

FEATURES & BENEFITS:

- General purpose primer/coating
- Cost-effective stand alone coating that can be applied in 1 or 2 coats as needed
- May be used as a primer/base coat with Rhino™ epoxy and polyaspartic flooring systems
- Easy to mix, easy to use, low odor
- Extended recoat window (>48 hours)
- Great “hide” covers in one coat at >150 sq ft/gallon

APPLICATIONS:

- Ideal concrete primer/base coat with Rhino™ epoxy and polyaspartic flooring systems
- Applied as a light duty concrete primer/coating for dust control and good appearance
- As a bonding, light duty, protective floor coating that provides excellent “hide” and coverage
- Used to prevent bubbles and other “out-gassing” issues
- Can be applied directly to properly prepared metal substrates

CONDITIONS TO AVOID:

- Do not apply to concrete less than 28 days old
- Do not apply to concrete with curing or sealing membranes
- Do not apply to base concrete at a temperature less than 55°F

APPLICATION PROPERTIES:

Coverage Rate	150 – 200 sq. ft./gallon
Solids by Volume (%)	65%
Mixed Viscosity, cps	400 – 600
Mixing Ratio	1:1 by volume
Working Time	2 – 3 hours
Lacquer Dry (dust free) Time	60 – 90 min.
Walk-on Time (light traffic)	4 – 6 hours after application
Cure Time (return to service)	Overnight
VOC (grams per liter)	75

PHYSICAL PROPERTIES:

Pencil Hardness (overnight)	HB	ASTM D-3363
Pencil Hardness (7 days)	H	ASTM D-3363
Cross Hatch Adhesion	5	ASTM D-3359
1/4" Mandrel Bend	Pass	ASTM D-522
Direct Impact Resistance (lbs)	60	ASTM D-2794
Reverse Impact Resistance (lbs)	20	ASTM D-2794

HOW SUPPLIED:

Rhino™ 1501, epoxy coating, is available in 2 gallon, 10 gallon and 110 gallon kits

COLOR OPTIONS FOR RHINO® 1501:

Light gray, medium gray, dark gray, tan, red oxide, off-white

MIXING:

Thorough and complete mixing is critical. A Jiffy mixer is recommended. First mix each component separately. Carefully proportion each component at the ratio of 1 parts A (resin) to 1 part B (hardener) by volume. Mix at 200 – 300 RPM for 3 – 5 minutes. No stripes or color variation should be visible in the mix. DO NOT use liquid material beyond three hours from mixing time. Although the product appears unchanged, poor gloss and film properties will result if material is applied after the three hour limit.

IMPORTANT: After mixing, wait 10 – 15 minutes before application to allow for the required "induction" of material prior to application. Mix no more material than may be applied in 3 hours.

SURFACE PREPARATION:

Surfaces must be structurally sound and free from contaminants such as dust, oil or dirt. Sand or sweep blasting, by other means of mechanically abrading or acid etching achieves best bond. All freestanding water must be removed. General surface preparation and application procedures specified in ACI 503.1-4 should be followed.

PRIME / BASE COAT:

When using Rhino™ 1501 as a primer, apply material at the rate of 150 – 200 sq. feet per gallon by brush or roller. Allow material to cure 6 – 8 hours, or overnight before re-coating to be sure all water has evaporated. When priming steel, prepare surface by sand blasting or other mechanical abrasion. It is easily applied by brush or roller.

When using Rhino™ 1501 as a stand alone coating, two coats should be applied. The first coat typically covers 150 – 200 sq ft/gallon or 4 – 5 mils dft. A second coat should be applied at 150 – 250 sq ft/gallon (3 – 4 mils dft) for best results. Allow 4 – 6 hours between coats and an overnight cure of the final coat before returning the area to service.

TIPS FOR USE:

Temperature and humidity conditions affect the cure and tack free times of this material. Warm, dry conditions speed the cure and cool, damp conditions will lengthen the cure time. Each component should be stirred prior to mixing.

SAFETY PRECAUTIONS:

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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