



Rhino[®] 2300

100% Solids Epoxy Coating / Broadcast System

Data Sheet

Part # 2300

DESCRIPTION:

Rhino[®] 2300 is a 100% solids epoxy coating / broadcast system. Rhino[®] 2300 has good chemical resistance properties and applies easily over concrete substrate by brush, roller or squeegee. It is easily mixed using the industry standard 2:1 by volume ratio of resin to hardener. Rhino[®] 2300 dries quickly, usually tack free within 4 – 6 hours, and dries to a high gloss with greater color stability than conventional epoxies.

FEATURES & BENEFITS:

- Good chemical resistance
- Easy to mix, easy to use, low odor
- Working time 25 - 35 minutes
- 2:1 mixture - 2 parts A (resin) to 1 part B (hardener) by volume

APPLICATIONS:

- Pigmented, it is a cost-effective broadcast / color top coat and is highly recommended for chip or aggregate broadcast applications
- As a chemically resistant clear top coat that cures to a high gloss with excellent cosmetic appearance
- In moisture tolerant applications with new-to-old concrete adhesives
- As a “flood” coat in mineral filled applications

CONDITIONS TO AVOID:

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

APPLICATION PROPERTIES:

Coverage Rate (as a neat coating)	80 – 120 sq. ft/gallon (13 – 20 mils dft)
Solids by Volume (%)	100%
Mixed Viscosity (cps)	300 – 600
Pot Life (neat coating)	25 – 35 minutes
Tack Free Time	4 – 6 hours
Walk-on Time	8 – 10 hours after application
Cure Time (return to service)	24 – 36 hours
Full Cure Time	7 days

PHYSICAL PROPERTIES:

Hardness (Shore D)	85	ASTM D-2240
Tensile Strength (psi)	7,400	ASTM D-638
Elongation (%)	4.5	ASTM D-638
Flexural Strength (psi)	17,900	ASTM D-790
Flexural Modulus (psi)	582,000	ASTM D-790
Compressive Strength (psi)	10,100	ASTM D-695
Compressive Modulus (psi)	280,000	ASTM D-695
Tg (°F)	140	ASTM D-648

HOW SUPPLIED:

Rhino[®] 2300, 100% solids epoxy coating, is available in 3 gallon, 15 gallon and 165 gallon kits

COLOR OPTIONS:

Clear, light gray, medium gray, dark gray, tan, red oxide and off-white

MIXING OF RHINO® 2300:

A thorough and complete mix is critical. First mix each component separately. Carefully proportion each component at the ratio of 2 parts A (resin) to 1 part B (hardener) by volume and mix for 3 – 5 minutes. No stripes or color variation should be visible in the mix. When used as a neat coating or chip/aggregate broadcast system, mix no more material than may be applied in 20 minutes.

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 achieves the best bond. All freestanding water must be removed. General surface preparation and application procedures specified in ACI 503.1-4 should be followed.

BROADCAST “CHIPS” OR OTHER AGGREGATES:

Rhino® 2300 epoxy is recommended as the “chip” coat or binder coat for aggregate broadcast systems. Successive broadcast layers may be applied once the previous application is swept and lightly sanded to achieve up to ½" thickness. Top coating the system with clear Rhino® 2300 locks in the aggregate and seals in the broadcast “chips”. Allow a cure time of 24 – 36 hours once the final coat is applied before returning the area to service.

CLEAR EPOXY TOP COATS:

Rhino® 2300 may be used as an interior clear coat over a Rhino® 1501 primed base coating on concrete at a coverage rate of 80 – 120 sq ft/gallon. The clear top coat should be allowed to cure for 24 – 36 hours before returning to service.

CHEMICAL RESISTANCE GUIDE (3 week immersion):

Reagent	% weight gain (loss)	Reagent	% weight gain (loss)
Xylene	E	Synthetic Gasohol	E
Toluene	E	5% Detergent Solution	E
1,1,1 Trichloroethane	E	10% Sodium Hydroxide	E
MEK	G	50% Sodium Hydroxide	E
EB (Ethylene Glycol Monobutyl Ether)	E	10% Sulfuric Acid	E
Ethyl Alcohol	E	70% Sulfuric Acid	E
Water (deionized)	E	10% Hydrochloric Acid	E
Methel alcohol	G	5% Acetic Acid	G
Skydrol	E	10% Acetic Acid	F

E = Excellent, G = Good, F = Fair

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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