



Part A – Rhino Hybrid™ 21-55 Iso, Part # 60129 Part B – Rhino Hybrid™ 21-55 Resin, Part # 60029

DESCRIPTION:

Rhino Hybrid[™] is a two-component, rapid curing, elastomeric hybrid polyurea lining system. Rhino Hybrid[™] is designed to be sprayed with high pressure plural component spray equipment such as the RhinoPro[™] HP-21 Max. Thickness of the lining will vary depending on the application, typically from a minimum of 30 mils up to unlimited thickness.

TYPICAL USES:

- Excellent industrial lining for tough application spray conditions such as:
- Outdoor application sites where water, humidity or low temperature conditions exist and are tough to eliminate
- Floor and wall protection in industries such as food processing, food storage, veterinary, production areas and laboratories
- Secondary containment as a monolithic, impermeable lining for industrial plant, agriculture, and petrochemical applications
- · Spray-on application creates a monolithic, seamless lining which conforms to any shape and size
- Elastomeric properties allow for application to surfaces subject to: vibration, expansion, contraction, movement, flexing, abrasion and impact
- Can withstand vehicle forklift traffic and heavy loads with proper thickness build
- Reduces noise from vibration and impact

FEATURES & BENEFITS:

- Robust application window with ability to spray at low temperatures and high humidity
- Excellent abrasion and impact resistance
- · Good chemical resistance
- Excellent corrosion resistance
- Bonds to virtually all substrates of any dimension, including metals, woods, concrete, fiberglass and geotextiles
- Stable from -40° to 175°F (-40° to 80°C)
- 100% solids, zero VOCs, no solvents

IEMICAL PROPERTIES*:	Standard Test	Isocyanate (A)	Resin (B)
Specific Gravity (grams/cc)	ASTM D-792	1.18 – 1.12	1.03 – 1.05
Viscosity, CPS at 77°F (25°C)		400 – 600	600 – 800
Solids by Volume/Weight		100%	100%
Volatile Organic Compounds		0 lbs/gal	0 lbs/gal
Mix Ratio, Parts per Volume		1	2
Gel Time, Seconds		4 – 7	
Tack-free, Seconds		7 – 10	
Shelf Life - Unopened Containers		12 months	12 months
Base Color		amber/brown	opaque

*Properties were tested at 77°F (25°C).

YPICAL PHYSICAL PROPERTIES:	Test	Result
Hardness (Shore D)	ASTM D-2240	55±5
Tensile Strength (psi)**	ASTM D-412	2200 – 2400
Elongation (%)**	ASTM D-412	90 – 100
Compressive Strength (psi)	ASTM D-695	>800
Taber Abrasion Resistance (mg of loss/1000 cycles) CS17 Wheel; 1000 grams weight	ASTM D-4060	25 – 30
Tear Resistance (pli)** Die C	ASTM D-624	300 – 330
Ross Flex (% crack growth per 50,000 cycles)	ASTM FIA-308	Χ
Water Absorption (%)	ASTM D-570	≤1.5
Dielectric Strength (volts/mil)	ASTM D-149	300
Volume Resistancy (ohm/inches)	ASTM D-257	6 X 10 (12)

RHINO HYBRID™ 21-55

TY	'PICAL PHYSICAL PROPERTIES (continued):	Test	Result	
	Dielectric Constant (MHz)	ASTM D-150	5.4	
	Dissipation Factor (MHz)	ASTM D-150	0.058 A	
	Cathodic Disbonding	ASTM G-8	Pass	

^{*}Properties were checked using Rhino Hybrid™ polyurea lining, 1/8" (125 mils), (3.18 mm) thick.

CHEMICAL RESISTANCE: Good resistance to many commercial and industrial chemicals such as acids, alkalies, oils and cleaning chemicals. For specific applications and information, please consult a Rhino Linings® representative.

STORAGE: Rhino Hybrid™ components should be stored in sealed containers at 60 – 90°F in a dry area.

COLOR OPTIONS: Color - Unpigmented. Rhino Hybrid™ can be pigmented in 10 standard colors—separate order necessary. Custom colors are also available by special order.

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.

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