

Part A – Rhino Eco-Coat® Iso, Part # 60701

Part B – Rhino Eco-Coat® Resin, Part # 60702

DESCRIPTION:

Rhino Eco-Coat® is UL listed ASTM E-108, plural component aluminized hybrid polyurea spray applied lining for commercial and industrial roofing applications. This system contains UV stabilizers and leafing aluminum pigment for enhanced UV stability. It can be sprayed using high or low pressure plural component spray equipment. For proper application, it is essential to use approved plural component equipment.

TYPICAL USES:

- Commercial and industrial roofing
- Recreational vehicle roof

FEATURES & BENEFITS:

- Fast Cure – Can be walked on within minutes of being sprayed
- Water Proof – Prevents penetration of water
- Flexible – For long term impact and crack resistance
- Durable – High tensile strength, chemical and abrasion resistance
- Labor Savings – Required mils can be applied in one coat
- Adhesion – Excellent adhesion to most surfaces
- Thermal Stability – From -30°F to 230°F (-34°C to 110°C)
- Environmentally Friendly – Low VOCs

CERTIFICATIONS:

- UL 790 Class A Rating

CHEMICAL PROPERTIES*:	Test	Isocyanate (A)	Resin (B)
Specific Gravity (grams/cc)	ASTM D-792	1.2	1.03
Viscosity, cps		1000	750
Solids by Volume/Weight		100%	100%
Volatile Organic Compounds		low	low
Mix Ratio, parts per volume		1	1
Gel Time, seconds		15 – 20	
Tack Free, seconds		60 – 90	
Recoat, max		≤4 hrs	
Cure Time		24 hrs	
Theoretical Coverage		1600 sqft/gal @ 1 mil	
Odor		slightly musty	amine
Color		gray	colorless amber
Shelf Life - Unopened Containers		12 months	6 months

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

TYPICAL PHYSICAL PROPERTIES:

	Test	Result
Hardness (Shore A)	ASTM D-2240	85±5
Tensile Strength (psi)**	ASTM D-412	1100 – 1400
Tear Resistance (pli)** Die C	ASTM D-624	180 – 270
Elongation (%)**	ASTM D-412	260 – 400
Impact Resistance (in/lbs)	ASTM D-256	160
Density (lb/ft ³)	ASTM D-1622	69 – 70
Compressive Strength (psi)	ASTM D-695	800
Taber Abrasion Resistance (mg of loss/1000 cycles) CS17 Wheel; 1000 grams weight	ASTM D-4060	11
180° Peel Test (pli)	ASTM D-903	12.5
Mandrel Bend, 180°, 1 inch mandrel	ASTM D-522	Pass

RHINO ECO-COAT®

TYPICAL PHYSICAL PROPERTIES (continued):

	Test	Result
Coefficient of Friction on Steel:	-Static	ASTM D-1894 .7
	-Kinetic	ASTM D-1894 .5
Water Vapor Transmission: (perm-in)	ASTM D-4134	0.09
Water Absorption (%)	ASTM D-570	≤1
Glass Transition - T _g (°C)	ASTM D-7028	-40°F (-40°C)

**Properties were checked of Rhino Eco-Coat® lining, 1/8" (125 mil), (3.18 mm) thick stock.

PROCESSING CHARACTERISTICS:

Equipment Used	Process Pressure	Spray Gun	Mix Module
Graco Reactor EXP-2	2300 psi (static)	Fusion - Air Purge or Mechanical Purge	minimum AR2929

Process Temperatures

Iso Component	Resin Component	Hoses	Substrate Surface
140° – 160°F (60° – 71°C)	140° – 150°F (60° – 66°C)	140° – 160°F (60° – 71°C)	40° – 120°F (4° – 49°C)

DRY FILM THICKNESS: Varies based on application, typically a minimum of 1/16" (62.5 mil; 1.5mm) up to unlimited thickness

INSTALLATION: Remove isocyanate Y Strainer Filter and Gun Filter on the isocyanate side. Mix module AR2929 or larger is recommended. For detailed application and processing instructions, please consult the Rhino Eco-Coat® Application Guide.

NOT RECOMMENDED FOR: Application to high density polyethylene or thermo plastics

CHEMICAL RESISTANCE: Rhino Eco-Coat® provides good resistance to many commercial and industrial chemicals such as acids, alkalis, oils and cleaning chemicals. For specific applications and information, please consult a Rhino® representative.

SUBSTRATES: Bonds to virtually all substrates of any dimension, including metals, wood, concrete and fiberglass

COLOR OPTIONS: Standard color – silver

HOW SUPPLIED: Net weight per set is 920 pounds (417.3 kg). A set of Rhino Eco-Coat® consists of one (1) 55 gallon (208 L) drum of 'A' component and one (1) 55 gallon (208 L) drum of 'B' component.

STORAGE: Components are sensitive to moisture and must be protected from contamination during storage. Rhino Eco-Coat® must never be stored in direct sunlight or allowed to freeze.

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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