

**DESCRIPTION:** Rhino Eco-Coat® 11-85P is a fast set, rapid curing, 100% solids, flexible, two component polyurea elastomer spray applied lining designed for rejuvenating aged recreational vehicle and trailer roofs. Its extremely fast gel time makes it suitable for applications down to -20°F without special conditioning of the component applied to flat, vertical and overhead surfaces in a single or multiple pass application from 10 mils to 1000 mils without appreciable sag or runs. Rhino Eco-Coat® 11-85P is inert, it will not hydrolyze, leach, or contaminate other materials, and is bondable and paintable. Rhino Eco-Coat® 11-85P is relatively moisture and temperature insensitive, allowing application in the most problematic ambient conditions.

**TYPICAL USES:** Recreational Vehicle and Trailer Roofs

**FEATURES AND BENEFITS:**

- Fast Cure - Return Project to Service in 60 Minutes
- Water Proof - Prevents Penetration in Water
- Flexible - For Long Term Impact and Crack Resistance
- Durable - High Tensile Strength, Chemical Abrasion Resistance
- Excellent Thermal Stability - Heat of Deflection 250°F
- Environmentally Friendly - 100% Solids, Meets VOC Regulations

CHEMICAL PROPERTIES	TEST	ISOCYANATE (A)	RESIN (B)
Specific Gravity (grams/cc)	ASTM D-792	1.12	1.06
Viscosity, cps		800-900	400-600
Solids by Volume/Weight		100%	100%
Volatile Organic Compounds		0 lbs./gal.	0 lbs./gal.
Mix Ratio, parts per volume		1	1
Gel Time, Seconds		20-30 @160°F (71.1°C)	
Tack-Free, Seconds		40-70 @160°F (71.1°C)	
Shelf Life - Unopened Containers		12 months	12 months
Base Color		Amber	Brown

\*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	1,650-1,850
Elongation (%)**	ASTM D-412	500 -600
Tear Resistance lbs./in.	ASTM D-624	325
Taber Abrasion Resistance (mg of loss/1000 cycles H-18 wheels)	ASTM D-4060	170-190
MVT, perms	ASTM E96	0.025

**PROCESS TEMPERATURE AND ENVIRONMENT CONDITIONS:** Rhino Eco-Coat 11-85P must be spray-applied using approved equipment. The system settings required to achieve quality spray polyurea application will vary depending on environmental and substrate conditions. The following recommended parameters will help ensure optimum foam quality.

Iso (A) and Resin (B) Component	Hose Temperature	Processing Pressure	Relative Humidity
160°F (71.1°C)	160°F (71.1°C)	2,000-3,000 psi	<85%
Substrate Temperature	Substrate Moisture Content	Maximum Film Thickness	
0-120°F (0-48.9°C)	<15%	N/A	

(continued)

**Rhino Eco-Coat® 11-85P** (continued):

**PREPARATION:** Any physical damage to the roof must be repaired prior to coating application. Roof surface must be clean, dry, and free of mildew, oil, grease, dirt, loosely adhered materials, or other foreign contaminants that would prevent proper adhesion of the coating. Non-painted surfaces may require solvent cleaning and abrading or scarifying of the surface to provide mechanical adhesion of the coating. No-painted surfaces should be clean rinsed, application surfaces must be checked for compatibility. Moisture content is critical to proper adhesion of polyurea. Relative humidity must not exceed 85%. Always perform a coating adhesion test before doing the entire roof. Depending on roof surface type and condition, a primer may be required to ensure proper adhesion.

**COVERAGE RATES:** Theoretical Square Feet Per Gallon:

Mils	10	15	50	60	80	100	125
Square Feet	160	107	32	27	20	16	13

Note: 1604 mil inches per gallon. Totally dependent on substrate texture and condition.

**HOW SUPPLIED:** Chemical is packaged in drums and pails. A drum set of Rhino Eco-Coat® 11-85P consists of one (1) 55 gallon (208 L) drum of 'A' component and one (1) gallon (208 L) drum of 'B' component.

Part A-Iso Part # EC1185P A-D

Part B-Resin Part # EC1185P B-D

**MIXING INSTRUCTIONS:** The successful installation of Rhino Eco-Coat® 11-85P will depend on the equipment capabilities and settings, the temperature of the coating in the container ambient temperature and relative humidity percentage, substrate temperature and moisture content, substrate type and condition. Use 1:1 ration pump, with appropriate material heaters, as required for individual application. For information contact Rhino Linings Corporation Technical Services.

**COLOR OPTIONS:** Standard color is charcoal aluminized. Other colors available upon request.

**STORAGE:** Rhino Eco-Coat® 11-85P one year, in original, unopened factory containers, under normal storage conditions of 55°F- 95°F.

**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 the storage and handling methods herein suggested. 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 should be determined and made known to ultimate end-users and processors.

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