

Part #60290 DuraCoat™ 11-60 Isocyanate
Part #60291 DuraCoat™ 11-60 Resin
DESCRIPTION

DuraCoat™ 11-60 is a fast cure, 100% solids (Zero VOC), aromatic polyurethane "hard coat" specifically formulated to provide high impact damage resistance for expanded polystyrene (EPS) and other light weight polyurethane (PU) foams. DuraCoat™ 11-60 contours to any shape to form a seamless, lightweight shell of protection. It offers an exceptional balance of hardness and impact resistance. The sprayed surface flows out smooth to reduce post finish sanding and to allow fast top coating with exterior insulation finishing systems (EIFS), stucco mastics or primers. This product is applied using heated, plural component airless spray equipment. Light/medium tan color is standard.

FEATURES AND BENEFITS

- No Solvents, Volatiles of Styrene Odor
- Fast Dry to the Touch (5-8 Seconds)
- Self-Leveling for a Smooth Finish
- Durability Extends Substrate Life
- High Impact Resistance
- Protection Against Chemical Attacks (Gasoline, Oil Solvents, Etc.)
- Excellent Waterproofing Characteristics
- Resistant to Freeze/Thaw Expansion Contractions and Thermal Shock Cycles

TYPICAL USES

- Scenic Props and Theatrical Sets
- 3D Signage
- Auto Speaker Enclosures and Amplifier
- Foam Architectural Shapes
- Dock Flotation Systems
- Wood Flight Cases
- Food Shipment Crates

CHEMICAL PROPERTIES	TEST	Isocyanate (A)	Resin (B)
Specific Gravity (grams/cc)	ASTM D-792	1.15±0.05	1.11±0.05
Viscosity, cps		635±50	875±50
Weight Per Gallon		9.57±0.05	9.27±0.05
Mix Ratio, Parts Per Volume		1	1
Solids by Volume		100%	100%
Solids by Weight		100%	100%
Volatile Organic Compounds		0 lbs/gal	0 lbs/gal
Shelf Life-Unopened Containers		12 months	6 months
Base Color		Amber	Light Straw Opaque

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

TYPICAL PHYSICAL PROPERTIES	TEST	RESULT
Hardness (Shore D)	ASTM-2240	60±5
Tensile Strength (psi)	ASTM D-412	2500±200
Elongation (%)	ASTM D-412	80±5
Tear Resistance (pli) Die C	ASTM D-624	500±100

DURACOAT™ 11-60

PROCESSING PARAMETERS

Test samples were sprayed using the following:

Equipment Used	Process Pressure	Spray Gun	Mix Module
Graco Reactor EXP-2	2300 psi (static) / 1900-2000 psi (dynamic)	Fusion-Air Purge	AR2929

Process Temperatures: The system settings required to achieve quality lining application will vary depending on environmental and substrate conditions. The following recommended parameters will help ensure optimum lining quality.

Isocyanate Temperature (A)	Resin Temperature (B)	Hoses - High Pressure	Substrate Surface
150-160°F (66-71°C)	150-160°F (66-71°C)	155°F (68°C)	60-110°F (15-43°C)

CHEMICAL RESISTANCE

Good resistance to many routine chemicals such as: weak acids, weak alkalis, oils and cleaning agents. For specific applications and/or information, consult with a Rhino Linings® representative.

SUBSTRATES

Metals, wood, concrete, fiberglass, and geotextiles.

THICKNESS RANGE

Varies based on application. Thickness can vary from a minimum of 1/16" (62.5 mils; 1.5mm) to unlimited thickness.

COLOR OPTIONS

Full color range available. Pigments sold separately.

STORAGE

Side A and B containers should always be stored in a dry area with the caps tightly sealed to avoid atmospheric moisture from entering. Partly used containers should be capped with Nitrogen. Storage at 70-80°F (20-25°C) is preferred. Always protect containers from frost, avoid long periods in direct sunlight. Storage above 122°F (50°C) is to be avoided as this may lead to the formation of insoluble solids.

SAFETY PRECAUTIONS

Health Considerations: Consult the Rhino Linings® Safety Data Sheet (SDS).

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings® product SDS 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 end users and processors.

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