

Part A – Low Pressure 11-70 Iso, Part # 60226U

Part B – Low Pressure 11-70 Resin, Black, Part # 60228U

DESCRIPTION: Low Pressure 11-70 is a 1:1 volume ratio, two-component, 100% solids (no VOCs, no solvents), exothermic, rapid curing, elastomeric lining system. It is specially designed for use in the Rhino LP-11 Elite low pressure proportioning machine or Rhino® cartridge system. Lining thickness varies based on application, typically from a minimum of 1/16" (62.5 mils; 1.6 mm) up to unlimited thickness.

TYPICAL USES:

- Spray-on application creates a monolithic, seamless lining that conforms to any shape and size
- Elastomeric properties allow for application to surfaces subject to: vibration, expansion, contraction, movement, flexing, abrasion and impact.
- Bonds to virtually all substrates of any dimension, including metals, woods, concrete and fiberglass
- Stable from -40° F to 175° F (-40° to 79.4° C)

FEATURES & BENEFITS:

- Robust application window with ability to spray at low temperatures and high humidity
- High tensile strength and tear strength properties
- Very good abrasion and impact resistance
- Good chemical resistance
- Excellent corrosion resistance
- Good noise reduction

CHEMICAL PROPERTIES:	Standard Test	Isocyanate (A)	Resin (B)
Specific Gravity (grams/cc)	ASTM D-792	1.12	1.08
Viscosity, CPS at 77°F (25°C)		200 ± 50	1100 ± 100
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 at 77°F (25°C)		9 ± 2	
Tack-free, Seconds		12 ± 3	
Shelf Life - Unopened Containers		12 months	12 months
Base Color		straw yellow	black

TYPICAL PHYSICAL PROPERTIES:	Test	Result
Hardness (Shore D)	ASTM D-2240	70±5
Tensile Strength (psi)*	ASTM D-412	2900 ± 200
Elongation (%)*	ASTM D-412	50 ± 10
Compressive Strength (psi)	ASTM D-695	>800
Taber Abrasion Resistance (mg of loss/1000 cycles) CS17 Wheel; 1000 grams weight	ASTM D-4060	16
Tear Resistance (pli) Die C*	ASTM D-624	650 ± 50
Water Absorption (%) - 24 hours	ASTM D-570	≤1.5
Dielectric Strength (volts/mil)	ASTM D-149	300
Volume Resistancy (ohm/inches)	ASTM D-257	6 X 10 (12)
Dielectric Constant (MHz)	ASTM D-150	5.4
Dissipation Factor (MHz)	ASTM D-150	0.058
Cathodic Disbonding	ASTM G-8	Pass

*Properties were checked on lining, 1/8" (125 mils), (3.18 mm) thick stock.

LOW PRESSURE 11-70 (continued)
TYPICAL PHYSICAL PROPERTIES:

Test

Result

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

Equipment Used	Process Pressure at 90° F (32.2° C)
Rhino™ LP-11 Elite	100 – 200 psi

Isocyanate Temperature	Resin Temperature	Hoses - Low Pressure
77° – 95°F (25° – 35°C)	77° – 95°F (25° – 35°C)	77° – 95°F (25° – 35°C)

DRY FILM THICKNESS: Varies based on application, typically a minimum of 1/16" (62.5 mil; 1.6 mm) up to unlimited thickness

NOT RECOMMENDED FOR:

- Sustained temperatures below -40° F (-40° C) or above 175° F (79.4° C)
- Application to high density polyethylene or thermo plastics

CHEMICAL RESISTANCE: Low Pressure 11-70 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 Linings® representative.

SUBSTRATES: Metals, wood, concrete

COLOR OPTIONS: Standard color - black.

HOW SUPPLIED: 55 gal (208.2 l) drum set.

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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