



Spray Equipment and Coatings
850709 U.S. Hwy 17
Yulee FL 32097
877.772.9629

PRODUCT DESCRIPTION

ROCKHARD BEDLINER is a two component 100% solid Polyurea with superior performance in industrial applications. ROCKHARD BEDLINER displays extremely fast cure times with excellent adhesions to different substrates. ROCKHARD BEDLINER can be spray applied at temperatures ranging from 20°F to 150°F. ROCKHARD BEDLINER has excellent chemical resistance and excellent water insensitivity. ROCKHARD BEDLINER conforms to USDA and FDA guidelines for incidental food contact.

PRIMARY APPLICATIONS:

ROCKHARD BEDLINER adheres well to several substrates including concrete, steel, and wood. Some typical uses include:

- SECONDARY CONTAINMENT
- WASTEWATER LAGOON AND POOL LININGS
- TABLE EDGING
- COLD STORAGE AREAS
- WASH BAY AND SHOWER LININGS
- COOLING TOWERS
- PETROCHEMICAL REFINERIES
- OILFIELD PIPELINE COATINGS
- WATER PROOFING
- SEWER LINERS
- MANHOLE RESTORATION
- INDUSTRIAL FLOORING
- BRIDGE COATINGS
- BED LINERS

Tensile Strength (PSI) ASTM D412 2870
Elongation (%) ASTM D412 250
100% Modulus ASTM D412 2120
300 % Modulus ASTM D412 3100
Tear Strength (PLI) ASTM D2240 190
Hardness (Shore A) ASTM D1737 90
Flexibility (1/ 8 “ Mandrel) ASTM D1737 Pass
Flashpoint (°F) ASTM Pensky-Martin >200
Taber Abrasion (mg loss) ASTM D4060 70
CS18 WHEEL1 kg per 1000 cycles
Viscosity B Side CPS 650
Viscosity A Side CPS 450
Ratio A / B PBV 1 : 1

TYPICAL PROCESSING PROPERTIES:

Fast Slow
Gel Time seconds 9 22
Tack Free Time seconds 16 35
Open to Foot Traffic minutes 5 60
Open to Industrial Traffic minutes 60 120

RECOMMENDED EQUIPMENT SETTINGS:

Hose Temperature A-Side °F 150
Hose Temperature B-Side °F 150
Block Temperature °F 150

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Spray Pressure (PSI) 2000

APPLICATION EQUIPMENT:

This material must be applied utilizing a high-pressure plural component pump (1:1 by Volume) . The proportioning unit must be capable of supplying the correct pressure and heat for the required hose length on a consistent basis. This characteristic is mandatory to apply this elastomer in a consistent, efficient manner.

INSTALLATION RECOMMENDATIONS:

Substrate surfaces should be free of loose particles, rusts, voids and spills. Chloride, moisture and pH levels should be checked prior to application. Always agitate the B-side before using.
CONCRETE:

Old Concrete – Sandblasting, shot blasting or water blasting is highly recommended to remove surface contaminants. Any oils or fats must be removed prior to product application. Acid etching may be required (followed by a thorough rinsing) to open the pores of the concrete to accept a primer coat. PolyBlackPrime is recommended for **ROCKHARD BEDLINER**. A minimum 40-mil coating of **ROCKHARD BEDLINER** is generally recommended for chemical and abrasion resistance.

New Concrete – The concrete should be allowed to cure for a minimum of 30 days. Shot - blasting, sand blasting or acid etching (15% muriatic acid / 85% H₂O) is required to remove the surface lattice that appeared during the curing process. PolyBlackPrime should be applied to reduce out gassing.

TYPICAL PHYSICAL PROPERTIES:

Carbon Steel – The steel must be prepared to a “near white metal,” equivalent to SSPC 10 or NACE 2. For immersion service, a 3-mil blast profile is recommended. A 2-mil blast profile is generally accepted. A 10 – 40 mil coat of **ROCKHARD BEDLINER** is generally recommended based on chemical resistance issues.

Substrate Repairs – All spalls and cracks should be repaired to ICRI standards. Expansion joints should be honored. Horizontal control joints can be filled with a Joint Seal prior to the application of **ROCKHARD BEDLINER**.

PRIMER REQUIREMENTS:

PolyBlackPrime

SAFETY AND HANDLING:

Refer to MSDS sheets

SHELF LIFE AND STORAGE:

Six months in factory delivered unopened drums. Keep away from extreme heat, cold, and moisture. Maintain at a proper storage temperature of 60°F - 100°F.

PACKAGING:

- 5 gal pails
- 55 gal drums
- 275 gal totes

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SHIPPING INFORMATION:

ROCKHARD BEDLINER can ship via commercial truck lines, class 55.

ADHESION RESULTS:

ASTM D-4541 Elcometer

Concrete (No primer) >400 psi → Concrete Failure

Concrete (Epoxy) >300 psi → Concrete Failure

Steel (No primer) >1500 psi → Substrate Failure

Steel (Epoxy primer) > 900 psi → Primer Failure

Wood (No primer) > 250 psi → Delamination

COVERAGE CALCULATIONS:

Coating Thickness Sq.Ft /gal

20 mils 70

30 mils 48

40 mils 36

50 mils 29

60 mils 24

80 mils 18

RockHard Bedliner TDS | MaxPolymers

100 mils 14

250 mils 5.5

CHEMICAL RESISTANCE:

*R ⇒ **Recommended** ⇒ Little or no visible damage

*RC ⇒ **Recommended Conditional** ⇒ Some effect, swelling, discoloration

*C ⇒ **Conditional** ⇒ Crackling-wash down within 1 hour of spillage to avoid effects

*NR ⇒ **Not Recommended**

*Dis ⇒ **Discoloration**

Chemical Result (25°C)

Acetic Acid (100%) C

Acetone C

Ammonium Hydroxide (50%) RC

Benzene C

Brine-Saturated H₂O (310g/l) R

Chlorinated H₂O R

Clorox® (10%) H₂O R

Diesel Fuel RC

Gasoline RC

Gasoline / 5 % MTBE RC

Gasoline / 5% Methanol RC

Hydrochloric Acid (20%) R

Hydrofluoric Acid (10%) NR

Hydraulic Fluid (oil) RC

Isopropyl Alcohol R

Lactic Acid RC

MEK RC

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Methanol R
Methylene Chloride C
Mineral Spirits RC
Motor Oil R
MTBE C
Muriatic Acid (10%) R
NaCl / H₂O (10%) R
Nitric Acid (20%) NR
Phosphoric Acid (10%) R
Phosphoric Acid (50%) NR
Potassium Hydroxide (10%) R
Potassium Hydroxide (20%) R, Dis
Propylene Carbonate RC
Skydrol® C
Sodium Hydroxide (25%) R
Sodium Hydroxide (50%) R, Dis
Sodium Hypochlorite (10%) R
Sodium Bicarbonate R
Stearic Acid R
Sugar / H₂O R
Sulfuric Acid (10%) R
Sulfuric Acid (>50%) RC
Toluene R
1,1,1-Trichlorethane C
Trisodium Phosphate R
Vinegar / H₂O (5%) R
H₂O R
H₂O (14 days @ 82°C) RC
Xylene RC

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