



Technical Data

GatorHyde DLX SPR 70A

“Highly Flexible” Aromatic Polyurea Spray

NB 2079

Revised: 070109

MANUFACTURER

Elastomer Specialties, Inc.
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PRODUCT DESCRIPTION:

GatorHyde DLX SPR 70A is a two component, high solids, Zero VOC's (Volatile Organic Compound), polyurea hybrid spray system that has been designed for applications that require high flex properties, abrasion resistance, and long term protection for immersion service in water, wastewater, and sewage applications. This polyurea displays outstanding physical properties, hydrogen sulfide resistance (H₂S), excellent microbial and bacteria resistance including anaerobic & aerobic microbial waste byproducts. **GatorHyde DLX SPR 70A** can be applied using conventional high-pressure polyurea application equipment. **GatorHyde DLX SPR 70A** can be applied on concrete, wood or metal substrates (primer may be required) at temperatures ranging from 25°F to 200°F. **GatorHyde DLX SPR 70A** may be thinned with Oxsol 100®, or xylene up to 25 % if required.

APPLICATION EQUIPMENT:

This material can be applied utilizing a high-pressure plural component pump (1:1 by Volume). This proportioning unit must be capable of supplying the correct pressure and heat for the appropriate hose length on a consistent basis. This characteristic is mandatory to apply this elastomer in a consistent, efficient manner. It is necessary to stir the “B-Side” for a minimum of two minutes prior to application using a collapsible drum entering mixer utilizing 6 1/2” blades to ensure pigmentation is in solution.

AVAILABLE COLORS:

- Black
- Light Gray,
- Custom Colors on Request

INSTALLATION RECOMMENDATIONS:

Concrete— For optimum performance, the concrete should be hydro blasted or sandblasted. The concrete should be allowed to cure a minimum of 30 days. **GatorHyde DLX SPR 70A** should be applied over primer for maximum adhesion (contact manufacturer for details). It may be necessary to fill in bug-holes on the concrete surface prior to application of **GatorHyde DLX SPR 70A**. It is recommended to apply **GatorHyde DLX SPR 70A** to a minimum thickness of 100 mils for waterproofing and structural purposes. There is no limitation on the dry film thickness that **GatorHyde DLX SPR 70A** can be applied. A “stipple” coat can be applied for non-skid purposes after reaching desired film thickness. Contact Elastomer Specialties for further instructions and relevant technical bulletins pertaining to **GatorHyde DLX SPR 70A**.

APPLICATION NOTES:

The addition of solvent may be required for thinning purposes. It is important to maintain constant pressures while spraying. A variation in pressures can result in loss of properties, poor color retention, and bubbling. Hose temperatures should maintain a minimum temperature of 160°F. The resin and isocyanate heaters should maintain 160°F. However, line pressures may vary with equipment. The applicator should verify consistency to his satisfaction.

TYPICAL PHYSICAL PROPERTIES (24 hour Postcure):

TENSILE STRENGTH, PSI	ASTM D412	2650
ELONGATION, %	ASTM D412	725
100% MODULUS	ASTM D412	180
200% MODULUS	ASTM D412	280
300% MODULUS	ASTM D412	500
TEAR STRENGTH, PLI	ASTM D624	197
HARDNESS, SHORE A	ASTM D2240	65
FLASH POINT, °F	PENSKY-MARTIN	>200
TABER ABRASION, MG LOSS	ASTM D4060	tba
CS 18 WHEELS	1KG, 1000 REVS	
WATER ABSORPTION	ASTM D-471	< 1.0 %
VISCOSITY B-SIDE (75°F)	CPS	3500
VISCOSITY A-SIDE (75°F)	CPS	400

TYPICAL PROCESSING PROPERTIES :

GEL TIME	SECONDS	40
TACK FREE TIME	MINUTES	3
VOLUME RATIO	V:V	1:1
A-SIDE TEMPERATURE	°F	160
B-SIDE TEMPERATURE	°F	160
HOSE TEMPERATURE	°F	160
HYDRAULIC PRESSURE, PSI	Minimum While Spraying	2000

CLEAN-UP/DISPOSAL:

Cured product may be disposed of without restriction. The un-cured isocyanate and resin portions should be disposed of according to local, state, and federal laws.

SAFETY & HANDLING:

MSDS will be sent with the shipment or upon request. All personnel should read and understand the safety recommendations. All body parts should be covered and forced air respirators are recommended for safe application of this product. Keep uncured product away from children at all times.

SHELF LIFE & STORAGE:

One year in factory delivered, unopened drums. Keep away from extreme heat, freezing, and moisture. The use of drum heaters is encouraged to reduce material viscosity at low temperatures. Preferred material storage temperatures are 60°F to 90°F. If required, **GatorHyde DLX SPR 70A** may be stored at temperatures lower than 60°F, however the materials should be warmed to a minimum of 70°F and stirred to achieve optimum processing properties.

PACKAGING:

GatorHyde DLX SPR 70A is available in 5 gallon pails, 55 gallon drums and 275 gallon totes.

SHIPPING INFORMATION:

GatorHyde DLX SPR 70A can be shipped via most commercial truck lines. The shipping class is "55" polyurea spray. The "A" and "B" sides are unregulated.

CHEMICAL RESISTANCE:**ASTM D3912 MOD. 3 DAY IMMERSION**

Chemical	Result (25°C)
Acetic Acid (5%)	R
Anti-freeze	R
Brake Fluid (DOT3)	RC
Diesel Fuel	R
Gasoline	R
Hydrochloric Acid (20%)	R
Hydrogen Sulfide (H ₂ S) 100,000 ppm	R
Motor Oil	R,Dis
Salt Water (Seawater)	R
Sodium Hydroxide (10%)	R
Sulfuric Acid (10%)	R,Dis
Transmission Fluid	R
JP-4 (Jet Fuel)	RC
Xylene	RC

R = Recommend = Little or no Visible Damage

RC = Recommend Conditional = Some Effect-Swelling, Discoloration

C = Conditional = Cracking—Wash Down Within One Hour of Spillage to Avoid Effects

NR = Not Recommended

Dis = Discoloration Only

Contact Elastomer Specialties for more in depth chemical resistance studies.

RECOAT WINDOW:

GatorHyde DLX SPR 70A can top-coated with several products manufactured by Elastomer Specialties to help ensure color stability. However, for maximum adhesion, the topcoat should be applied within 24 hours of application of the **GatorHyde DLX SPR 70A**. It is preferable to apply a topcoat immediately after application.

WARRANTY:

The technical data and any other printed information furnished by Elastomer Specialties, Inc. are true and accurate to the best of our knowledge. **GatorHyde DLX SPR 70A** conforms to in-house quality control procedures and should be considered free of defects. Due to the wide range of applications of this product, it is impossible to assume responsibility for any errors in regard to application, coverage, workmanship, over-spray, or injuries resulting from the use of this product. Elastomer Specialties, Inc. makes no warranty expressed or implied, of its products and shall not be liable for indirect or consequential damage in any event.

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