



## Technical Data

# GatorHyde DLX 65D

## “Structural” Aromatic Polyurea Spray

NB 2076

Revision 08/05/09

### MANUFACTURER

Elastomer Specialties, Inc.  
2210 South Highway 69  
Wagoner, OK 74120  
Phone: (800) 786-4244

### PRODUCT DESCRIPTION:

**GatorHyde DLX 65D** is a two component, 100% solids, Zero VOC's (Volatile Organic Compound), polyurea spray system that has been designed for applications that require excellent structural, dynamic, and mechanical properties as well as long term protection in immersion service in water, wastewater, and sewage applications. This polyurea displays outstanding physical properties, hydrogen sulfide Resistance (H<sub>2</sub>S), excellent microbial and bacteria resistance including anaerobic & aerobic microbial waste byproducts. **GatorHyde DLX 65D** can be applied using conventional high-pressure polyurea application equipment. **GatorHyde DLX 65D** can be applied on concrete, wood or metal substrates (primer may be required) at temperatures ranging from 25°F to 300°F. **GatorHyde DLX 65D** displays higher tensile strength than most concrete structures. Additionally, the high modulus and moderate elongation provide will provide excellent structural strength and will rejuvenate “questionable” concrete surfaces that have long suffered H<sub>2</sub>S attack.

### APPLICATION EQUIPMENT:

This material can be applied utilizing a high-pressure plural component pump (1:1 by Volume) such as a GlasCraft-MH® equipped with a Probler® gun (or equivalent). 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 minimum of two minutes prior to application using a collapsible drum entering mixer utilizing 6½” 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 65D** should be applied over primer for maximum adhesion (contact manufacturer for details). It may be necessary to fill bugholes on the concrete surface prior to application of **GatorHyde DLX 65D**. It is recommended to apply **GatorHyde DLX 65D** to a minimum thickness of 100 mils for waterproofing and structural purposes. There is no limitation on the dry film thickness that **GatorHyde DLX 65D** 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 65D**.

### APPLICATION NOTES:

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. The Probler® gun requires a #1 or #2 round chamber. 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	6250
ELONGATION, %	ASTM D412	200
100% MODULUS	ASTM D412	3384
200% MODULUS	ASTM D412	4100
TEAR STRENGTH, PLI	ASTM D624	725
HARDNESS, SHORE D	ASTM D2240	60-65
HARDNESS, SHORE A	ASTM D2240	>100
FLASH POINT, °F	PENSKY-MARTIN	>200
TABER ABRASION, MG LOSS	ASTM D4060	14.1
CS 17 WHEELS	1KG, 1000 REVS	
WATER ABSORPTION	ASTM D-471	< 1.0 %
VISCOSITY B-SIDE (75°F)	CPS	450
VISCOSITY A-SIDE (75°F)	CPS	400

### TYPICAL PROCESSING PROPERTIES (GlasCraft):

GEL TIME	SECONDS	3
TACK FREE TIME	SECONDS	4
VOLUME RATIO	V:V	1:1
A-SIDE HOSE TEMPERATURE	°F	160
B-SIDE HOSE TEMPERATURE	°F	160
BLOCK TEMPERATURE	°F	140
HYDRAULIC PRESSURE, PSI	Minimum While Spraying	
GLAS-CRAFT,PROBLER®		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 an 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 65D** 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 65D** is available in 110 gallon drum sets with the A side having a net material weight of 500 lbs. The "B" Side drum has a net material weight of 450 lbs.

**SHIPPING INFORMATION:**

**GatorHyde DLX 65D** can be shipped via most commercial truck lines. The shipping class is "55" polyurea spray. The "A" side and the "B" sides are unregulated.

**CHEMICAL RESISTANCE:**

ASTM D3912 MOD. 3 DAY IMMERSION

<b><u>Chemical</u></b>	<b><u>Result (25°C)</u></b>
Acetic Acid (5%)	R
Anti-freeze	R
Brake Fluid (DOT3)	RC
Diesel Fuel	R
Gasoline	R
Hydrochloric Acid (20%)	R
Hydrogen Sulfide (H <sub>2</sub> 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** = Liffle 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 reistance studies.**

**RECOAT WINDOW:**

**GatorHyde DLX 65D** can be 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 65D**. It is preferrable 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 65D** 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.