



## Technical Data

## GatorHyde DLX

### Aromatic Polyurea Spray

NB 1279

Revised: 03/2011

#### MANUFACTURER

Chemline, Inc.

5151 Natural Bridge Road

St. Louis, MO 63115

Phone: (314) 664-2230

#### PRODUCT DESCRIPTION:

**GatorHyde DLX** is a two component, 100% Solids, zero VOC's (Volatile Organic Compound), hybrid polyurea that has been developed for demanding long term immersion service in water, wastewater, and sewage applications. This polyurea displays outstanding physical properties, excellent microbial and bacteria resistance including anaerobic and aerobic microbial waste by-products. **GatorHyde DLX** can be applied on concrete or metal substrates (over primer) at temperatures ranging from 20°F to 250°F. This polyurea elastomer displays excellent chemical resistance, thermal stability and UV resistance. **GatorHyde DLX** can be lightly "stippled" for anti-skid purposes. **GatorHyde DLX** can be top coated for ultimate UV color fastness. **GatorHyde DLX** is a user-friendly, forgiving polyurea developed to minimize problems associated with applications in the field.

#### APPLICATION EQUIPMENT:

**GatorHyde DLX** must be applied utilizing a high pressure, plural component pump (1:1 by Volume) such as the GRACO Reactor E-10, E-XP1, E-XP2 or GRACO H-XP2. When ready to spray this material, the proportioning unit must be capable of supplying the correct pressure and heat which is mandatory in order to apply the product in a consistent, efficient manner. Depending on the plural component spray system used, **GatorHyde DLX** should be applied at a constant pressure range between 2000 and 2500 psi and material temperatures of 150°F to 170°F. For additional information on equipment and installation issues, contact GatorHyde for details.

#### AVAILABLE COLORS:

- Black
- Light Gray
- Sky Blue

Custom colors on request.

Please allow an extra 10-14 days for delivery on all custom color orders.

#### 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** should be applied over IsoPrime II or PoxyPrime EPS-LT primers for maximum adhesion. It may be necessary to use PoxyPrime BF (bug-hole filler) prior to application of **GatorHyde DLX** to help fill bug holes and smooth the surface. After proper preparation, **GatorHyde DLX** should be applied in a cross directional (North, South, East, and West) method. It is recommended to apply **GatorHyde DLX** to a minimum thickness of 40 mils for waterproofing purposes. There is no limitation on the dry film thickness that **GatorHyde DLX** can be applied. A "stipple" coat can be applied for non-skid purposes after reaching desired film thickness. Contact GatorHyde for further instructions and relevant technical bulletins pertaining to **GatorHyde DLX**.

#### APPLICATION NOTES:

It is very 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 heater should maintain 160°F. The B-side drums will crystallize below 60°F. The use of drum belt heaters is generally required. "The contractor should verify consistency to his own satisfaction."

#### PRIMING VARIOUS SUBSTRATES:

Depending on application use, choosing the right primer can be the difference between bonding success and failure. The manufacturer recommends the following primers to be installed prior to applying **GatorHyde DLX**.

##### 1. Concrete, Concrete Block and Masonry surfaces

- a. **PoxyPrime** a 100% solids epoxy primer mfg. by GatorHyde. Prior to applying said primer, all surface areas should be properly prepared by removing any and all loose dirt, grease, oil, failed paint, or coating systems. Surfaces are to be steel shot or sand blasted in order to provide the right surface profile. Once the surface has been properly prepared, **PoxyPrime** is to be installed at approximately 100-150 SF per gallon, depending on the porosity of the surface and recommended application specification. See mfg. for product tech data and MSDS.

## 2. Steel surfaces:

- a. **PoxyPrime** mfg. by GatorHyde or ChemLok 213 mfg. by Lord Chemical Company. Prior to applying either of these recommended primers, make sure that the steel surface is free of all petrol chemical, paint, coatings, or any other surface contaminates. Next abrade the entire surface using the steel shot or sand blast method. Once the surface has been properly prepared, then and only then, install the specified primer to the steel surface in accordance with the manufacturers recommended coverage rate. Allow the appropriate curing time of the primer before applying the **GatorHyde DLX**. See manufacturer for product tech data and MSDS.

Rough up the entire surface area using a coarse, variable speed buffer with a medium to course grit sanding disk. Next wipe surface area clean with acetone before applying **IsoPrime II**. **Do Not Apply primer** full strength. It must be diluted with acetone or MEK at a volume ratio of 1/3 IsoPrime II to 2/3 MEK or acetone. (See IsoPrime II technical data for further instructions.) Once mixed, the primer can then be applied with either a cup gun, airless sprayer or can be rolled or brushed on. The product should be applied at approximately ½ to 1 mil (no more). Allow primer to become tack free, approximately 30 minutes. Once tack free then install **GatorHyde DLX** at the specified film thickness. See manufacturer for product technical data and MSDS.

## 3. Aluminum & Galvanized Surfaces:

- a. **GatorHyde Wash Primer** manufactured by GatorHyde is a special primer developed for use on all aluminum and galvanized surfaces prior to the application of **GatorHyde DLX**. All surfaces shall be properly prepared before applying primer by removing all loose dirt, dust, petrol chemicals, paint, mold release and coating systems. Once contaminants have been properly removed then apply **GatorHyde Wash Primer** in accordance with specification data as supplied by GatorHyde. Once primer has been applied wait the recommended amount of time prior to installing the **GatorHyde DLX**. See manufacturer for product tech data and MSDS.

### PRODUCT USES:

**GatorHyde DLX** can be used to rehabilitate and protect concrete or masonry surfaces which have been damaged from mechanical, chemical or temperature related abuse. **GatorHyde DLX** can be used as a protective, elastomeric membrane coating for applications in or on:

- Cold Storage Facilities
- Food Processing Plants
- Bottling and Canning Facilities
- Fast Food Facilities
- Airport Hangers
- Waste Water Treatment Plants
- Parking Decks and Ramps
- Walk Ways and Balcony Decks
- Industrial Facilities
- Manufacturing Facilities
- Primary/Secondary Containment over Geo-Textile Fabric
- Vertical or Horizontal Concrete or Wood Surfaces
- Masonry Block
- Insulation Board
- Sprayed on Urethane Foam
- Over FRP Board
- Cement Board
- Steel Pipe
- Commercial Kitchen or Bakery Floors

## 4. Wood, Plywood, Masonite Particle Board:

- a. **PoxyPrime** 100% solids epoxy primer mfg. by GatorHyde shall be the specified primer. Prior to installing **PoxyPrime** on any wood surface make sure that the wood is dry and free from all form oils, release agents, petrol chemicals, dirt, failed paint, and other contaminants which may prevent the primer from properly bonding to the wood surface. Depending on the type of substrate, it may be necessary to apply two coats of **PoxyPrime** in order to eliminate the possibility of pin holing of the **GatorHyde DLX** when applied. Once the primer has been applied allow the primer to cure in accordance with the manufacturer's specification data prior to applying **GatorHyde DLX**. See manufacturer for product tech data and MSDS.

### TYPICAL PHYSICAL PROPERTIES :

TENSILE STRENGTH, PSI	ASTM D412	7100
ELONGATION, %	ASTM D412	427
100% MODULUS	ASTM D412	1136
200% MODULUS	ASTM D412	2054
300% MODULUS	ASTM D412	4040
TEAR STRENGTH, PLI	ASTM D624	411
HARDNESS, SHORE D	ASTM D2240	45
HARDNESS, SHORE A	ASTM D2240	93
FLEXIBILITY, 1/8" MANDREL	ASTM D1737	PASS
FLASH POINT, °F	PENSKY-MARTIN	>200
TABER ABRASION, MG LOSS	ASTM D4060	12.3
CS 17 WHEELS	1KG, 1000 REVS	
VISCOSITY B-SIDE (75°F)	CPS	850
VISCOSITY A-SIDE (75°F)	CPS	650
WATER ABSORPTION	ASTM D471	< 1.0%

## 5. Fiberglass Surfaces:

- a. **IsoPrime II**, a solvented, single component primer, mfg. by GatorHyde is recommended for use on all fiberglass surfaces before the application of **GatorHyde DLX**. Prior to preparation of the surface make sure all loose dirt, debris, petrol chemicals, release agent and primers have been thoroughly removed.

**TYPICAL PROCESSING PROPERTIES:**

GEL TIME	SECONDS	5
TACK FREE TIME	SECONDS	15
VOLUME RATIO	V:V	1:1
A-SIDE HOSE TEMPERATURE	°F	160
B-SIDE HOSE TEMPERATURE	°F	160
HYDRAULIC PRESSURE, PSI Minimum While Spraying		2000

**RECOAT WINDOW:**

**GatorHyde DLX** can be top-coated with several products manufactured by GatorHyde to help ensure color stability. However, for maximum adhesion, the topcoat should be applied within 12 hours of application of the **GatorHyde DLX**. It is preferable to apply a topcoat immediately after application.

**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 mailed immediately upon receipt of a purchase order or upon request. All personnel should read and understand the safety recommendations. All body parts should be covered and activated charcoal respirators (at a minimum-forced air is preferable) are necessary for safe application of this product. Keep uncured product away from children at all times.

**SHELF LIFE & STORAGE:**

Six months to 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 is 60°F, however, the materials should be warmed to a minimum of 70°F and stirred to achieve optimum processing properties.

**PACKAGING:**

**GatorHyde DLX** is available in 5 gallon pails, 55 gallon drum kits, or 275 gallon tote sets.

**SHIPPING INFORMATION:**

**GatorHyde DLX** 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**

<u>Chemical</u>	<u>Result (25°C)</u>
Acetic Acid (5%)	R
Anti-freeze	R
Brake Fluid (DOT3)	RC
Diesel Fuel	R
Gasoline	R
Hydrochloric Acid (20%)	R
Motor Oil	R,Dis
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**

**ADHESION RESULTS:****ASTM D-4541 Patti Tester**

Concrete (direct to concrete)	(NO PRIMER):	>350 PSI
	- Glue Failure	
Concrete	PoxyPrime	600 PSI
	-EPOXY Glue Failure	
	-1/8" Concrete on dolly	
Carbon Steel (direct)		900 PSI

**WARRANTY:**

The technical data and any other printed information furnished by GatorHyde are true and accurate to the best of our knowledge. **GatorHyde DLX** 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. GatorHyde 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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