



Technical Data

GatorHyde HP 65D

Polyurea Hybrid Coating

NB 2072
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MANUFACTURER
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PRODUCT DESCRIPTION:

GatorHyde HP 65D is a two component, 100% solids, zero VOC's (Volatile Organic Compound), UV stabilized, modified polyurea, polyurethane blend. **GatorHyde HP 65D** offers outstanding performance and durability when used as a protective coating for the automotive and marine industry. **GatorHyde HP 65D** displays quick cure times and offers excellent adhesion to properly prepared substrates. The unique chemical make-up of this rapid curing Polyurea-hybrid elastomer enables the material to be installed on substrate temperatures as low as 32°F. Because **GatorHyde HP 65D** is not a pure urethane, it is far less sensitive to moisture, therefore seriously reducing the risks of bubbling in climates where the humidity is consistently high. This material displays excellent UV characteristics and is suitable for either interior or exterior use.

PRIMARY APPLICATIONS:

- PICK-UP TRUCK BED COATING
- AUTO ACCESSORIES
- ROCKER PANELS
- FLARE FENDERS
- TOOL BOXES
- NURF BARS & BRUSH GUARDS
- HORSE TRAILER INTERIORS
- RECREATIONAL BOAT INTERIORS
- WORK BOATS
- WORK TRUCKS
- POLYSTYRENE FOAM COATING
- PLYWOOD AND OTHER WOOD PRODUCTS
- DOOR FRAMES, FACINGS, ETC.
- COMMERCIAL SPEAKERS

APPLICATION EQUIPMENT:

GatorHyde HP 65D 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 HP 65D should be applied at a constant pressure range between 1500 and 2500 psi and material temperature of 140°F to 160°F. For additional information on equipment and installation issues, contact ESI for details.

AVAILABLE COLORS:

- Black
- Standard Colors

APPLICATION RECOMMENDATIONS:

GatorHyde HP 65D adheres extremely well to properly prepared metal, wood, aluminum, fiber glass, galvanized metal and concrete surfaces. Prior to coating procedure, make sure that all substrates are free of loose dust, dirt, rust, grease, oil, mold release agents or other contaminants that might interfere with the bonding process. Where excellent adhesion is required, it is recommended that surfaces be primed before applying **GatorHyde HP 65D**. **Contact manufacturer for recommended primer use and details on pump systems and accessories.**

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 HP 65D**.

1. **Concrete, Concrete Block and Masonry surfaces**
 - a. **PoxyPrime** a 100% solids epoxy primer mfg. by ESI. 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 spec data and MSDS sheet.
2. **Steel surfaces:**
 - a. **PoxyPrime** mfg. by ESI 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 manufacturer's recommended coverage rate. Allow the appropriate curing time of the primer before applying the **GatorHyde HP 65D**. See manufacturer for product spec data and MSDS sheets.

3. Aluminum & Galvanized Surfaces:

- a. **GatorHyde Wash Primer** manufactured by ESI is a special primer developed for use on all aluminum and galvanized surfaces prior to the application of **GatorHyde HP 65D**. 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 ESI. Once primer has been applied wait the recommended amount of time prior to installing the **GatorHyde HP 65D**. See manufacturer for product spec data and msds sheets.

4. Wood, Plywood, Masonite Particle Board:

- a. **PoxyPrime** 100% solids epoxy primer mfg. by ESI shall be the specified primer. Prior to installing **PoxyPrime** on any wood surface make sure that the wood is dry and free from all forms of 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 HP 65D** 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 HP 65D**. See manufacturer for product spec data and MSDS sheets.

5. Fiberglass Surfaces:

- a. **IsoPrime II**, a solvented, single component primer, mfg. by ESI is recommended for use on all fiberglass surfaces before the application of **GatorHyde HP 65D**. Prior to preparation of the surface make sure all loose dirt, debris, petrol chemicals, release agent and primers have been thoroughly removed. Rough up the entire surface area using a coarse variable speed buffer with a medium to coarse 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 at a volume ratio of 50:50. Once the primer is mixed, it can then be applied either with 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 HP 65D** at the specified film thickness. See manufacturer for product spec data and MSDS.

PHYSICAL PROPERTIES (1:1 BY VOL.):

Post Cure 200°F 18 hours

TENSILE STRENGTH, PSI	ASTM D412	4250
ELONGATION, %	ASTM D412	225
100% MODULUS	ASTM D412	1400
200% MODULUS	ASTM D412	2250
DIE "C" TEAR STRENGTH, PLI	ASTM D624	400
HARDNESS, SHORE D	ASTM D2240	65
VISCOSITY A-SIDE (75°F)	CPS	500
VISCOSITY B-SIDE (75°F)	CPS	650

TYPICAL PROCESSING PROPERTIES:

GEL TIME (ADJUSTABLE)	SECONDS	2
TACK FREE TIME	SECONDS	4

APPLICATION NOTES:

GatorHyde HP 65D adheres well to sound substrates. All surfaces should be free of moisture, rust, loose particles, petroleum-based products, bond breakers and other contaminating debris.

CLEAN-UP/DISPOSAL:

Cured product may be disposed of without restriction. The un-cured isocyanate and resin portions should be mixed together and disposed of in a normal manner. "Drip free" containers 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. Keep uncured product away from children at all times.

LIMITATIONS:

GatorHyde HP 65D is an aromatic hybrid polyurea. While the physical properties may not be affected, the elastomer could yellow with exposure to UV or mercury vapor light. It is highly recommended to use a dark color for any applications requiring color stability. If color stability is mandatory, contact the manufacturer for recommendations. The chemical resistance chart should be consulted prior to any application. **Each individual user should check the product compatibility with their application requirements prior to full-scale use.** Samples are available upon request.

SHELF LIFE & STORAGE:

Eight months in factory delivered, unopened drums. Keep away from extreme heat, freezing, and moisture. Proper storage temperature is between 60°F and 80°F. The components used in the **GatorHyde HP 65D** formulations have been specifically formulated to withstand low temperature applications. The material can be stored at temperatures as low as 20°F with no gelation of the components. However, it is recommended to warm the material to minimum of 70°F before application.

PACKAGING:

GatorHyde HP 65D is available in 5 gallon pails, 55-gallon drums, and 275 gallon totes.

SHIPPING INFORMATION:

GatorHyde HP 65D can be shipped via most commercial truck lines. The shipping class is "55". The "A" and "B" sides are unregulated.

CHEMICAL RESISTANCE:**ASTM D3912 MOD. 4 Hour Spot Test**

Chemical	Result (25°C)
Brake Fluid (DOT3)	RC
Clorox® (10%)/Water	RC
Diesel Fuel	RC
Gasoline	RC
Hydraulic Fluid (oil)	RC
NaCl/Water (10%)	R
Potassium Hydroxide (10%)	R
Sodium Hydroxide (10%)	R
Sodium Bicarbonate	R
Sugar/Water (10%)	R
Sulfuric Acid (10%)	R,Dis
Sulfuric Acid (>22%)	NR
Vinegar (5%)/Water	R
Water	R
Xylene	C

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

WARRANTY:

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

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