



Spec Data

GatorHyde UV 100

Aliphatic Polyurea

NB 2066

Revised 030107

MANUFACTURER

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PRODUCT DESCRIPTION:

GatorHyde UV 100 is a two component, 100% solids, No VOC's (Volatile Organic Compound), color stable, polyurea. **GatorHyde UV 100** retains color and gloss for a period of many years in direct sunlight. **GatorHyde UV 100** displays quick cure times and offers excellent adhesion to properly prepared substrates. The unique chemical make-up of this rapid curing polyurea hybrid enables the material to be installed on substrate temperatures as low as 0°F and as high as 200°F. This material displays excellent UV characteristics and is suitable for either interior or exterior use. **GatorHyde UV 100** can be used as a protective coating over many substrates, however, it was specifically developed for O.E.M. quality applications that require good gloss and color retention.

APPLICATION EQUIPMENT:

GatorHyde UV 100 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 UV 100** should be applied at a constant pressure range between 1800 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:

Standard Colors:

- Black
- Tan
- Custom colors on request

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

APPLICATION RECOMMENDATIONS:

GatorHyde UV 100 adheres extremely well to properly prepared metal, wood and concrete surfaces. Prior to coating procedure, make sure that the substrate is free of loose dust, dirt, rust, grease, oil, mold release agent or other contaminants that might interfere with the bonding process. Where excellent adhesion is required, it is recommended that all metal or concrete surfaces be primed before applying **GatorHyde UV 100**. **Contact manufacturer for recommended primer 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 UV 100**.

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 UV 100**. 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 UV 100**. 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 UV 100**. 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 UV 100** when applied. Once the primer has been applied allow the product to cure in accordance with the manufacturer's specification data prior to applying **GatorHyde UV 100**. See manufacturer for product spec data and MSDS sheets.

5. Fiberglass Surfaces:

a. **IsoPrime II**, solvented, single component primer, mfg. by ESI is recommended for use on all fiberglass surfaces before the application of **GatorHyde UV 100**. 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 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 at a volume ratio of 50:50. Once mixed, the primer can be applied with either a cup gun, airless sprayer or can be rolled or brushed on. The product should be applied at approximately 1/2 to 1 mil (no more). Allow primer to become tack free, approximately 30 minutes. Once tack free then install **GatorHyde UV 100** at the specified film thickness. See manufacturer for product spec data and MSDS.

PRODUCT USES:

GatorHyde UV 100 can be used to rehabilitate and protect concrete or masonry surfaces which have been damaged from mechanical, chemical or temperature related abuse. **GatorHyde UV 100** 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

PHYSICAL PROPERTIES (1:1 BY VOL.):

Post Cure 200°F 18 hours

TENSILE STRENGTH, PSI	ASTM D412	3722
ELONGATION, %	ASTM D412	425
100% MODULUS	ASTM D412	1839
DIE "C" TEAR STRENGTH, PLI	ASTM D624	2204
HARDNESS, SHORE A	ASTM D2240	100
HARDNESS, SHORE D	ASTM D2240	56
VISCOSITY A-SIDE (75°F)	CPS	1500
VISCOSITY B-SIDE (75°F)	CPS	350

TYPICAL PROCESSING PROPERTIES:

GEL TIME (ADJUSTABLE)	SECONDS	6
TACK FREE TIME	SECONDS	15

APPLICATION NOTES:

GatorHyde UV 100 adheres well to sound steel 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.

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LIMITATIONS:

GatorHyde UV 100 is an aliphatic polyurea. 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:

Six 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 UV 100** 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 80°F before application.

PACKAGING:

GatorHyde UV 100 is available in 5 gallon pails, 55-gallon drums, or 275 gallon totes.

SHIPPING INFORMATION:

GatorHyde UV 100 can be shipped via most commercial truck lines. The shipping class is "55". The "A" and "B" sides are unregulated.

"Preliminary"CHEMICAL RESISTANCE:

ASTM D3912 MOD. 4 Hour Spot Testo

<u>Chemical</u>	<u>Result (25°C)</u>
Brake Fluid (DOT3)	C
Clorox® (10%)/Water	C
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
Salt Water (Ocean Water)	R
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 UV 100** 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.