



Technical Data

GatorHyde ARC Slow Gel

Aromatic Polyurea Spray

NB 1290

Revised: 011410

MANUFACTURER

GatorHyde Protective Coatings, Inc.
2210 South Highway 69
Wagoner, OK 74467
(918) 485-2835

PRODUCT DESCRIPTION:

GatorHyde ARC Slow Gel is a two component, 100% solids, zero VOC's (Volatile Organic Compound), pure polyurea (all Amine & Polyetheramine-based) that has been developed for concrete restoration, corrosion protection, waterproofing applications, and installations over geo-textile fabrics, wood, foam board, urethane sprayed foam, masonry block, steel, aluminum and as a coating for secondary containment. This elastomer drastically reduces any moisture problems that may cause bubbling. **GatorHyde ARC Slow Gel** can be applied at temperatures ranging from -30°F to 300°F. This aromatic polyurea elastomer displays excellent chemical resistance thermal stability and UV resistance. **GatorHyde ARC Slow Gel** also shows very good moisture permeation resistance.

GatorHyde ARC Slow Gel can be texture coated to hide wet lines but because of its relatively slow gel time, only a raindrop texture or light non-abrasive stipple is achievable. Should color stability be a critical issue, the product can be top-coated with an aliphatic material.

APPLICATION EQUIPMENT:

GatorHyde ARC Slow Gel 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-XP3. 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 ARC Slow Gel** 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 GatorHyde for details.

AVAILABLE COLORS:

- Black
- Medium Gray
- Brick Red
- Tan.

Custom colors on request.

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

INSTALLATION RECOMMENDATIONS:

Concrete— For optimum performance, all concrete should be allowed to cure for a minimum of 30 days prior to installing ARC Slow Gel, then the concrete surface should be prepared by steel shot-blasting or sandblasting. For maximum adhesion to concrete surfaces, **GatorHyde ARC Slow Gel** should be applied over a recommended epoxy primer. (See manufacturer for details on specific primer use.) After proper preparation and depending on the porosity of the concrete, it is recommended that **GatorHyde ARC Slow Gel** be applied at a minimum film thickness of 60-90 mils for efficient waterproofing and foot traffic. On horizontal surface applications, a texture coat can be applied for cosmetic purposes, after reaching the initial desired film thickness. (Note! If a non-skid surface is required, you can broadcast a light media to the surface and lock the media in place using the stipple technique or top coat the ARC Slow Gel with GatorHyde CG.)

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 ARC Slow Gel**.

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 spec data and MSDS sheet.

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 manufacturer's recommended coverage rate. Allow the appropriate curing time of the primer

before applying the **GatorHyde ARC Slow Gel**. See manufacturer for product spec data and MSDS sheets.

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 ARC Slow Gel**. 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 ARC Slow Gel**. See manufacturer for product spec data and MSDS sheets.

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 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 ARC Slow Gel** 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 ARC Slow Gel**. See manufacturer for product spec data and MSDS sheets.

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 ARC Slow Gel**. 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 then be applied either with 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, install **GatorHyde ARC Slow Gel** at the specified film thickness. See manufacturer for product spec data and MSDS.

PRODUCT USES:

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

ADVANTAGES:

- 100% Solids, Meets VOC Regulations
- Flexible, Excellent Elongation
- Excellent Thermal Stability
- Good Resistance to a Variety of Solvents, Acids and Caustics
- Seamless, Resilient, Non-Cracking Elastomer
- Excellent Corrosion Protection
- Low Perm Rate
- Fast Reactivity and Cure Time (No Catalysts)
- Cures From -30°F to 300°F
- Return Projects to Service in 60 Minutes

TYPICAL PHYSICAL PROPERTIES : **Spray**

TENSILE STRENGTH, PSI	ASTM D412	3290
ELONGATION, %	ASTM D412	356
100% MODULUS	ASTM D412	1525
200% MODULUS	ASTM D412	1983
300% MODULUS	ASTM D412	2735
TEAR STRENGTH, PLI	ASTM D624	427
HARDNESS, SHORE A	ASTM D2240	98
HARDNESS, SHORE D	ASTM D2240	50
FLEXIBILITY, 1/8" MANDREL	ASTM D1737	PASS
FLASH POINT, °F	PENSKY-MARTIN	>200
TABER ABRASION, MG LOSS	ASTM D4060	17.0
CS 17 WHEELS	1KG, 1000 REVS	
VISCOSITY B-SIDE (75°F)	CPS	650
VISCOSITY A-SIDE (75°F)	CPS	350
A-SIDE HOSE TEMPERATURE	°F	140-160
B-SIDE HOSE TEMPERATURE	°F	140-160
BLOCK TEMPERATURE	°F	160

TYPICAL PROCESSING PROPERTIES:

GEL TIME	SECONDS	20
TACK FREE TIME	SECONDS	45
VOLUME RATIO	V:V	1:1

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.

PACKAGING:

GatorHyde ARC Slow Gel is available in 5 gallon pails, 55 gallon drum kits, and 275 gallon tote sets.

SHIPPING INFORMATION:

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

	Net Weight	Container Wt	Total Wt
A-side 5gal pails	45 lbs	2 lbs	47 lbs
A-side 55 gal drum	500 lbs	45 lbs	545 lbs
A-side 275 gal tote	2500 lbs	140 lbs	2640 lbs
B-side 5gal pails	43 lbs	2 lbs	45 lbs
B-side 55 gal drum	473 lbs	45 lbs	518 lbs
B-side 275 gal tote	2365 lbs	140 lbs	2505 lbs

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 = 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

ADHESION RESULTS:

ASTM D-4541 Patti Tester

Concrete (direct to concrete)		
	(NO PRIMER):	>350PSI
	- 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 ARC Slow Gel** 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.