

Technical Data Sheet



"Green" Gator 90A

Soy-Based, Aromatic Polyurea Spray Coating

NB 2112

Revised: 021010

MANUFACTURER

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PRODUCT DESCRIPTION:

"Green" Gator 90A is an "ALL NEW" two components, 100% solids, and zero VOC's (Volatile Organic Compound), UV stabilized, modified polyurea. "Green" Gator 90A has been specifically formulated using the latest in Soy-Based technology and offers outstanding performance and durability. This product is excellent when used as a spray on bed liner or on work trucks for additional protection. "Green" Gator 90A is also excellent in protecting metal, aluminum, fiberglass, concrete or wood surfaces. "Green" Gator 90A excels as a marine coating because it is not moisture sensitive and will not blister or bubble when exposed to extreme humidity. "Green" Gator 90A displays quick cure times and offers great adhesion to properly prepared substrates. The unique chemical make-up of this rapid curing Soy-Based hybrid polyurea elastomer enables the material to be installed on substrate temperatures as low as 32°F. This material displays excellent UV characteristics and is suitable for either interior or exterior use.

PRIMARY APPLICATIONS:

- PICK-UP TRUCK BED COATING
- AUTO ACCESSORIES
- WOOD SPEAKER BOXES
- IN MOLD PRODUCT PRODUCTION
- 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:

"Green" Gator 90A 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, "Green" Gator 90A should be applied at a constant pressure range between 2000 and 2500 psi and material temperature of 155° to 160°F. For additional information on equipment and installation issues, contact GatorHyde for details.

AVAILABLE COLORS:

- Black
- Others on request

APPLICATION RECOMMENDATIONS:

"Green" Gator 90A 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 "Green" Gator 90A. **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 "Green" Gator 90A.

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 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 "**Green**" **Gator 90A**. See manufacturer for product tech 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 "**Green**" **Gator**. 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 "**Green**" **Gator 90A**. See manufacturer for product tech 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 "**Green**" **Gator 90A** when applied. Once the primer has been applied allow the primer to cure in accordance with the manufacturer's specification data prior to applying "**Green**" **Gator 90A**. See manufacturer for product tech 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 "**Green**" **Gator**. 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 MEK at a volume ratio of no less than 50:50. If MEK is not available, use acetone. 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 "**Green**" **Gator 90A** at the specified film thickness. See manufacturer for product tech data and MSDS.

PHYSICAL PROPERTIES (1:1 BY VOL.):

Post Cure 200°F 24 hours

TENSILE STRENGTH, PSI	ASTM D412	1950
ELONGATION, %	ASTM D412	80
DIE "C" TEAR STRENGTH, PLI	ASTM D624	200
HARDNESS, SHORE A	ASTM D2240	90
HARDNESS, SHORE D	ASTM D2240	40

TYPICAL PROCESSING PROPERTIES:

GEL TIME (ADJUSTABLE)	SECONDS	3
TACK FREE TIME	SECONDS	6

APPLICATION NOTES:

"**Green**" **Gator 90A** 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:

"**Green**" **Gator 90A** 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 "**Green**" **Gator 90A** 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.

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

PACKAGING:

"**Green**" **Gator 90A** is available in 5 gallon pails, 55-gallon drums, and 275 gallon totes.

SHIPPING INFORMATION:

"**Green**" **Gator 90A** can be shipped via most commercial truck lines. The shipping class is "55". The "A" and "B" sides are unregulated.

	<u>Net Weight</u>	<u>Container Wt</u>	<u>Total Wt</u>
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	42 lbs	2 lbs	44 lbs
B-side 55 gal drum	462 lbs	45 lbs	507 lbs
B-side 275 gal tote	2310 lbs	140 lbs	2450 lbs

WARRANTY:

The technical data and any other printed information furnished by GatorHyde are true and accurate to the best of our knowledge. "**Green**" **Gator 90A** 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.