



Technical Data

GatorHyde EcoSpar

Aliphatic Polyaspartic/Polyurea

NB 2003

Revised: 011410

MANUFACTURER

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

PRODUCT DESCRIPTION:

GatorHyde EcoSpar is a formulation breakthrough. It is a 67% solids, pure polyurea coating that produces an automotive quality finish and yet has been designed for use in difficult application conditions utilizing standard paint application equipment. **GatorHyde EcoSpar** is formulated with PCBTF solvent which is an exempt solvent (according to the US EPA) and therefore, does not contribute to V.O.C.'s or H.A.P.S. emissions. **GatorHyde EcoSpar** can be applied in high humidity conditions and displays quick tack-free times. **GatorHyde EcoSpar** has excellent hiding characteristics and can be applied by a variety of different methods. **GatorHyde EcoSpar** can be used as the final coating for a variety of substrates which include metals, concrete, or wood. **GatorHyde EcoSpar** is extremely color stable and displays excellent UV weathering characteristics and flexibility. **GatorHyde EcoSpar** can be applied in temperatures ranging from 0°F to 150°F. When fully cured, **GatorHyde EcoSpar** will produce an abrasion resistant, high-gloss, and smooth finish. As a topcoat, **GatorHyde EcoSpar** will provide added UV protection and endurance to aromatic undercoats.

PRODUCT USES:

GatorHyde EcoSpar has been designed as a high quality topcoat on several different substrates including aluminum, cold-rolled steel, carbon steel, concrete, or wood. **GatorHyde EcoSpar** is formulated to be used in applications that require excellent finishes without perfect application conditions. **GatorHyde EcoSpar** can be applied in low temperatures or in high humidity conditions with no negative results on the finish or final properties. Some typical applications include:

- HANDRAIL COATINGS
- INDUSTRIAL AND LIVESTOCK TRAILER COATINGS
- IN-MOLD COATINGS
- BATHWARE INDUSTRY COATINGS
- MARINE AND OFFSHORE COATINGS
- AGRICULTURAL COATINGS

APPLICATION TECHNIQUES:

GatorHyde EcoSpar can be applied by several methods including high-pressure plural component spray systems, HVLP spray systems, air-assisted cup gun spray systems airless spray, roller, or brush. **GatorHyde EcoSpar** should be applied at a minimum dry film thickness of 5 to 15 mils. The applicator should apply the required mils in 5 - 6 mils coats. The first coat is a coverage coat and the final coat is the finish coat. These coats can be applied over each other within 15-30 minutes. For maximum pot-life, the mixed components should be covered to allow minimum solvent evaporation. Do not mix more material than can be applied in 15 minutes. It should be noted that the heavier the application, the longer the curing process takes.

AVAILABLE COLORS:

- Clear
- White
- Light Gray
- Safety Yellow
- Custom Colors on Request.
- Black
- Baby Blue
- Safety Red

TYPICAL PHYSICAL PROPERTIES:

Tensile Strength	ASTM D-412	Failure, psi	3300
Elongation	ASTM D-412	%	40
Tear Strength Die C	ASTM D-624	pli	744
Flexural Modulus	ASTM D	psi	TBA
Hardness	ASTM-D2240	Shore D	75
Taber® Abrasion (1KG, 1000 revs)	ASTM-D4060	mg loss, CS-17	TBA
% Solids (weight)	Calculated	%	67
Gloss	ASTM D-523	60° spec. Gloss	90+
Impact Resistance	ASTM D	Direct, Reverse	160,160
IZOD Impact			

Processing Properties (5 mils) (75°F) (54%RH)

Gel time (200 gram mass)	15 Minutes
Pot Life (200 gram mass)	30 Minutes
Tack Free Time (5 mils sprayed)	30 Minutes
Volume Ratio (A:B)	Varies on pigment
Weight Ratio (A:B)	Varies on pigment

FORMULATION PROPERTIES:

% Solids (volume, weight)	65, 67
VOC's (volume, weight)	zero, zero
HAPS (volume, weight)	zero, zero
Viscosity A-Side (cps)	25
Viscosity B-side (cps)	50-75
Viscosity Mixed (cps) (two minutes)	40

Installation Recommendations:

GatorHyde EcoSpar adheres well to several sound substrates including concrete, steel, wood and plastic. All surfaces should be free of loose particles, rust, voids and spalls. Always stir the resin side prior to application. The product requires 1 minutes mixing with a jiffy mixer prior to application. Any material that is not going to be used immediately should be left in a sealed container as the pot life in the container is longer than when applied. This is just the opposite of most epoxies. For maximum leveling, it is ideal to squeegee and back roll immediately after mixing. Continued back rolling 10 minutes after mixing may result in an orange peel surface.

Steel, Aluminum, Galvanized- The steel should be prepared to a "near white metal" equivalent to SSPC 10 or NACE 2. For immersion service, a three-mil blast profile is recommended. A two-mil blast profile is generally acceptable. Aluminum should be chromate washed and primed. Galvanized should be abraded and primed. Depending on application conditions, several primers may be utilized. Acceptable primers include epoxies, polyurethanes, zinc chromates and several others. Contact GatorHyde for specific recommendations. A 5-10 mil coat of **GatorHyde EcoSpar** is generally recommended.

MIXING INSTRUCTIONS:

Vigorously shake B-side container before mixing components for at least 60 seconds. Pour specified volumes (as stated on product label) of "A-Side" and "B-Side" and mix with "Jiffy Mixer" for one minute or until consistent color is attained. It is also acceptable to spray this material using high-pressure plural component spray equipment, or through a cup gun under low pressure spray.

APPLICATION NOTES:

It may be required to wipe metal surfaces (and sometimes the primer) with acetone or M.E.K. prior to application of **GatorHyde EcoSpar**. This will remove moisture that may have accumulated on the surface after preparation.

Contact manufacturer for recommendations

REPAIRS & MAINTENANCE:

Simply brushing on **GatorHyde EcoSpar** will provide small repairs to cuts in the coating. This material can be brushed on the surface after light scuffing and wiping with M.E.K. or acetone.

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. All body parts should be covered and respirators are required for safe application of this product. Keep uncured product away from children at all times.

LIMITATIONS:

The chemical resistance chart should be consulted prior to any application. This coating displays good abrasion resistance and physical properties. However it can still be cut. Proper precautions should be taken to eliminate sharp objects from "slicing" the coating.

SHELF LIFE & STORAGE:

Six months to one year in factory delivered, unopened containers. Storage temperatures are 60°F to 90°F.

PACKAGING:

GatorHyde EcoSpar is available in pints, quarts, one-gallon, 5 gallon pails, or 55 gallon drums.

SHIPPING INFORMATION:

GatorHyde EcoSpar can be shipped via most commercial truck lines. The shipping class is "55" polyurea. The "A" side (isocyanate) is unregulated and the "B" side is shipped as flammable.

ADHESION RESULTS:

ASTM D-4541 PATTI Tester (F2 Head)

Concrete Patio Block

(100% solids epoxy) 650 psi
-concrete failure 1/16th " concrete on dolly

Steel

(No Primer) >1000 psi
-adhesive failure

Wood

(No Primer) 250 psi
-delamination

CHEMICAL RESISTANCE:

ASTM D3912 Mod. 24 Hour Immersion

<u>Chemical</u>	<u>Result (25°C)</u>
Acetic Acid (100%)	NR
Acetone	C, Dis
Ammonium Hydroxide (20%)	R
Anti-freeze/Water (50:50)	RC
Battery Acid (Sulfuric Acid)	RC
Benzene	C
Brake Fluid (DOT3)	RC, Dis
Brine-Saturated (310g/l)	R
Citric Acid	RC
Clorox® (10%)/Water	RC, Dis
Copper Chromate Arsenic (4%)	R

CHEMICAL RESISTANCE CONTINUED:

ASTM D3912 Mod. 24 Hour Immersion

Diesel Fuel	R
Gasoline	R
Gasoline/5% MTBE	RC
Gasoline/5% Methanol	R
Hydrochloric Acid (100%)	C
Hydraulic Fluid (oil)	RC, Dis
Isopropyl Alcohol	RC
Lactic Acid	RC
MEK	NR
Methanol	R, Dis
Methylene Chloride	NR
Mineral Spirits	R
Motor Oil	R, Dis
MTBE	C

CHEMICAL RESISTANCE:

ASTM D3912 Mod. 4 Hour Immersion

Chemical	Result (25°C)
Muriatic Acid (10%)	R
NaCl/Water (10%)	R
Nitric Acid (50%)	R
Phosphoric Acid (10%)	R
Phosphoric Acid (50%)	NR
Potassium Hydroxide (10%)	R
Potassium Hydroxide (20%)	R, Dis
Propylene Carbonate	R
Skydrol®	RC
Sodium Hydroxide (50%)	R
Sodium Hypochlorite (10%)	RC
Sodium Bicarbonate	R
Sugar/Water (10%)	R
Sulfuric Acid (50%)	R, Dis
Toluene	R
1,1,1-Trichlorethylene	R, Dis
Vinegar (5%)/Water	R
Water	R
Water (82°C) 14 Day	R
Xylene	R

R= Recommend = Little or no Visible Damage**RC or C= Recommend Conditional =**

Some Effect-Swelling, Discoloration, 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 GatorHyde are true and accurate to the best of our knowledge. **GatorHyde EcoSpar** 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. Liability, if any, for this product will be in the form of replacement materials. The possibility exists to warrant this product on a specific application basis under specific written application instructions from GatorHyde.

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