



# PRODUCT SPECIFICATIONS

## Green Monster™ Liner Extreme

### PRODUCT DESCRIPTION:

**Green Monster™ Liner Extreme** is a two component, 100% solids, zero VOC, polyurea hybrid that has been developed for concrete restoration, steel corrosion protection, as well as waterproofing. **Green Monster™ Liner Extreme** can be applied at temperatures ranging from -30°F to 350°F. This aromatic polyurea displays excellent chemical resistance, thermal stability, permeation, and UV resistance. It adheres extremely well to properly prepared concrete, galvanized metal surfaces, geotextile fabric, wood, aluminum, fiberglass, and metal surfaces.

### PRIMARY APPLICATIONS:

**Green Monster™ Liner Extreme** can be used to rehabilitate and protect concrete, steel, aluminum, or fiberglass surfaces which have been damaged from mechanical, chemical or temperature related abuse. **Green Monster™ Liner Extreme** can be used as a protective, elastomeric membrane coating in:

- Manholes
- WWTP Infrastructures
- Lift Stations/ Wet Wells
- Pond liners/ Landfill Liners
- Concrete/ Metal/ Fiberglass Tanks

### APPLICATION EQUIPMENT:

This material must be applied utilizing a high-pressure plural component pump (1:1 by Volume) such as a Graco HXP-2 proportioner. The proportioning unit must be capable of supplying correct pressure and heat for the appropriate hose length on a consistent basis.

### COLOR:

- Light Green

### INSTALLATION PROCEDURES:

For optimum performance, concrete should be hydro blasted and/or sandblasted. Concrete that has been adhesion tested and approved to be compatible with the **Green Monster™ Liner Extreme** should have cured for 2 hours and heated with indirect heat before priming and coating. Prior to application of material, make sure that there is no loose dust, dirt, grease, petrochemicals, or any material that will interfere with the bonding process.

### ADVANTAGES:

- 100% Solids, Zero VOC'S
- Flexible, Excellent Elongation
- Excellent Thermal Stability
- Excellent Resistance to a Variety of Solvents, Acids, Caustics, and anything found in Waste Water Infrastructure
- Cures From -30°F to 350°F
- Excellent Corrosion Protection
- Low Perm Rate
- Fast Reactivity and Cure Time (No Catalysts)
- Return Projects to Service in 20 Minutes
- Seamless, Resilient, Non-Cracking

### TYPICAL PHYSICAL PROPERTIES:

-TENSILE STRENGTH, psi	ASTM D 412	5200	-FLASH POINT, °F	PENSKY-MARTIN	>200
-ELONGATION, %	ASTM D 412	300	-TABER ABRASION, MG LOSS CS17	ASTM D 4060	4.7
-100% MODULUS	ASTM D 412	1460	-HARDNESS, SHORE A	ASTM D 2240	95
-200% MODULUS	ASTM D 412	1960	-HARDNESS, SHORE D	ASTM D 2240	50
-300% MODULUS	ASTM D 412	3670	-FLEXIBILITY, 1/8" MANDREL	ASTM D1737	PASS
-VISCOSITY, A SIDE (75°F)	CPS	650	-TEAR STRENGTH, pli	ASTM D 624	470
-VISCOSITY, B SIDE (75°F)	CPS	850			

### ADHESION RESULTS:

-BOND WITH PRIMER (CONCRETE)	ASTM D 4541	600psi	-BOND; DIRECT (CARBON STEEL)	ASTM D 4541	>900psi
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### TYPICAL PROCESSING PROPERTIES:

-GEL TIME	SECONDS	8	-HYDRAULIC PRESSURE, PSI Minimum While Spraying	2000
-TACK FREE TIME	SECONDS	15	-RECOAT WINDOW	Up to 12 Hour
-FULL CURE	HOURS	24	-VOLUME RATIO	V:V 1:1



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#### **PRIMING:**

All on grade, below grade, above grade, vertical, horizontal, pre-cast, masonry, and concrete block or brick surfaces should be primed with Green Monster™ Primer prior to application of **Green Monster™ Liner Extreme**.

#### **APPLICATION RECOMMENDATIONS:**

Prior to application of material, make sure that there is no loose dust, dirt, grease, petrochemicals, or any material that will interfere with the bonding process. For maximum adhesion, **Green Monster™ Liner Extreme** should always be applied over Green Monster™ Primer except for some steel and aluminum applications no sooner than 20 minutes and no longer than 48 hours. After following the proper preparation steps according to the GML System Specs, **Green Monster™ Liner Extreme** should be applied in a cross directional method. It is recommended to apply **Green Monster™ Liner Extreme** at a minimum thickness of 80 mils to an unlimited build thickness.

#### **APPLICATION NOTES:**

It is very important to maintain constant pressure while spraying. A radical variation of these pressures can result in a loss of physical properties, poor color retention, bubbling and de-bonding of the material from the surface applied to. Hose temperature should maintain a minimum temperature of 150°F.

#### **CLEAN-UP/DISPOSAL:**

Cured product may be disposed of without restriction. The uncured 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 personal should read and understand the safety recommendations. All body parts should be covered and activated charcoal respirators at a minimum (forced air is preferable) provide for a safer application of this product.

#### **SHELF LIFE & STORAGE:**

12 months under normal conditions. It should be stored in sealed containers between 60°F and 90°F. Keep away from extreme heat, freezing, moisture, and direct sunlight.

#### **PACKAGING:**

**Green Monster™ Liner** is provided in 55-gallon drum kits, or 275-gallon tote sets.

#### **SHIPPING INFORMATION:**

**Green Monster™ Liner** can be shipped via most commercial truck lines. The shipping class is "55" polyurea spray. The "A" and "B" sides are unregulated and classified as liquid plastic, NOS. Please refer to the MSDS for further information.



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