

Green Monster™ Liner

PRODUCT DESCRIPTION:

Green Monster™ Liner is a two component, 100% solids, zero VOC pure polyurea (all Amine & Polyetheramine-based) that has been developed for concrete restoration, steel corrosion protection, as well as waterproofing. **Green Monster™ Liner** 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.

PRIMARY APPLICATIONS:

Green Monster™ Liner 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** can be used as a protective, elastomeric membrane coating in:

- MANHOLES
- CONCRETE / METAL / FIBERGLASS TANKS
- WWTP INFRASTRUCTURE
- LIFT STATIONS / WET WELLS
- POND LINERS / LANDFILL LINERS

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 RECOMMENDATION:

For optimum performance, the concrete should be hydro blasted and/or sandblasted. Concrete that has been adhesion tested and approved to be compatible with the **Green Monster™ Liner** System should have cured for 2 hours and have been heated with indirect heat before priming and coating.

SHELF LIFE & STORAGE:

One year in sealed, unopened factory containers, under normal storage conditions of 55° F to 95° F.

APPLICATION RECOMMENDATIONS:

Green Monster™ Primer adheres extremely well to properly prepared concrete and metal surfaces. Prior to application of material make sure that there is no loose dust, dirt, rust, grease, petrochemicals, or any material that will interfere with the bonding process. **Green Monster™ Primer** is applied; For maximum adhesion, **Green Monster™ Liner** 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** should be applied in a cross directional method. It is recommended to apply **Green Monster™ Liner** at a minimum thickness of 80 mils to an unlimited build thickness.

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
- Excellent Corrosion Protection
- Low Perm Rate
- Fast Reactivity and Cure Time (No Catalysts)
- Cures From -30°F to 350°F
- Return Projects to Service in 20 Minutes
- Seamless, Resilient, Non-Cracking

TYPICAL PHYSICAL PROPERTIES

• TENSILE STRENGTH, PSI	ASTM D412	4500	• ABER ABRASION, MG LOSS	ASTM D4060	17.0
• ELONGATION, %	ASTM D412	460	• CS 17 WHEELS	1KG, 1000 REVS	
• 100% MODULUS	ASTM D412	1460	• VISCOSITY B-SIDE (75°F)	CPS	650
• 200% MODULUS	ASTM D412	1960	• VISCOSITY A-SIDE (75°F)	CPS	350
• 300% MODULUS	ASTM D412	2650	• TEAR STRENGTH, PLI	ASTM D624	570
• HARDNESS, SHORE A	ASTM D2240	98	• BLOCK TEMPERATURE	°F	160
• HARDNESS, SHORE D	ASTM D2240	52	• FLEXIBILITY, 1/8" MANDREL	ASTM D1737	PASS
• HYDRAULIC PRESSURE, PSI minimum while spraying		2000	• FLASH POINT, °F	PENSKY-MARTIN	>200



Green Monster™ Liner

ADHESION RESULTS:

ASTM D-4541 Patti Tester

- Carbon Steel (direct): 900 PSI or Greater
- Concrete 600 PSI with **Green Monster™ Primer**

TYPICAL PROCESSING PROPERTIES:

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

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**.

APPLICATION NOTES:

It is very important to maintain constant pressures while spraying. A radical variation of these pressures can result in loss of physical properties, poor color retention, bubbling, blistering and de-bonding of the material from the surface applied to. Hose temperatures should maintain a minimum temperature of 145°F. The resin and isocyanate heaters should maintain 145°F.

CLEAN-UP/DISPOSAL:

Cured product may be disposed of without restriction. The uncured portions should be disposed of according to local, state, and federal laws.

SAFETY HANDLING:

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) provide for a safer application of this product.

SHELF LIFE & STORAGE:

Six months to one year in unopened drums. Keep away from extreme heat, freezing, moisture, and direct sunlight.

PACKAGING:

Green Monster™ Liner is provided in 110 gallon kits.

SHIPPING INFORMATION:

Green Monster™ Liner can be shipped via most commercial truck lines. Please refer to the MSDS for further information.

