



## Green Monster™ Liner Structural

### PRODUCT DESCRIPTION:

**Green Monster™ Liner Structural** is a two component, 100% solids, zero VOC, polyurethane hybrid, structural coating that has been developed for concrete protection, corrosion, and abrasion protection, as well as waterproofing. **Green Monster™ Liner Structural** can be applied at temperatures ranging from 50°F to 100°F. It adheres extremely well to properly prepared concrete and metal surfaces.

### PRIMARY APPLICATIONS:

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

- Manholes
- Lift Stations/ Wet Wells
- WWTP Infrastructures
- Storm Sewer
- Concrete or Steel Pipe

### 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 **Green Monster™ Liner Structural** should have cured for 2 hours and heated with indirect heat before priming and coating.

### ADVANTAGES:

- 100% Solids, Meets VOC Regulations
- High Impact Resistance
- 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)
- Return Projects to Service in 20 Minutes
- Seamless, Resilient, Non-Cracking

### TYPICAL PHYSICAL PROPERTIES:

· TENSILE STRENGTH	ASTM D412	4,500	· FLASH POINT, °F	PENSKY-MARTENS	275 F
· ELONGATION, %	ASTM D412	25	· TABER ABRASION, MG LOSS	ASTM D 4060	90mg
· FLEXURAL MODULUS	ASTM D729	>80,000	· HARDNESS, SHORE D	ASTM D 2240	70 D
· IMPACT STRENGTH (DIRECT)	ASTM G14-04	>50 in/LB	· FLEXIBILITY, 1/8" MANDREL	ASTM D 522	PASS at 40 mils

### ADHESION RESULTS:

· BOND WITH PRIMER (CONCRETE)	ASTM D 4541	>480psi
· BOND WITH PRIMER (CARBON STEEL)	ASTM D 4541	>3,000psi

### TYPICAL PROCESSING PROPERTIES:

· GEL TIME	SECONDS	8	· A-SIDE HOSE TEMPERATURE	°F	155
· TACK FREE TIME	SECONDS	20	· B-SIDE HOSE TEMPERATURE	°F	155
· VOLUME RATIO	V:V	1:1			
· HYDRAULIC PRESSURE, psi Minimum While Spraying		2000			



# PRODUCT SPECIFICATIONS

The logo for GML Coatings, featuring the letters 'GML' in a large, bold, green font above the word 'COATINGS' in a smaller, green, sans-serif font. The background is a light green with a subtle pattern of white, cloud-like or splatter-like shapes.

*Green Monster™ Liner Structural*

## **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 Structural**.

## **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 Structural** should always be applied over Green Monster™ Primer. After following the proper steps according to the GML System Specs, **Green Monster™ Liner Structural** should be applied in a cross directional method. It is recommended to apply **Green Monster™ Liner Structural** at a minimum thickness of 125 mils to an unlimited build thickness. Standard application thickness for manholes and lift stations is 250 mils.

## **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 155°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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