

# Green Monster™ Structural

**PRODUCT DESCRIPTION:**

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

**PRIMARY APPLICATIONS:**

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

- Manholes
- WWTP Infrastructures
- Lift Station/ Wet Wells
- 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 RECOMMENDATION:**

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™ Structural** System should have cured for 2 hours and heated with indirect heat before **Green Monster™ Structural** is applied. It 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. For maximum adhesion, **Green Monster™ Structural** should always be applied over Green Monster™ Primer. After following the proper steps according to the GML System Specs, **Green Monster™ Structural** should be applied in a cross directional method. It is recommended to apply **Green Monster™ Structural** at a minimum thickness of 150 mils to an unlimited build thickness.

**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
- Return Projects to Service in 20 Minutes
- Seamless, Resilient, Non-Cracking

**TYPICAL PHYSICAL PROPERTIES**

• TENSILE STRENGTH	ASTMD412	4,500	• FLASH POINT, °F	PENSKY-MARTIN	275 F
• ELONGATION, %	ASTM D412	25	• TABER ABRASION, MG LOSS	ASTM D1630-06	37mg
• FLEXURAL MODULUS	ASTM D790	80,000	• HARDNESS, SHORE D	ASTM D2240	70
• IMPACT	ASTM G14-04	52 in/lb	• FLEXIBILITY, 1/8" MANDREL	ASTM D1737	PASS

**TYPICAL PROCESSING PROPERTIES:**

• GEL TIME	SECONDS	8	• A-SIDE HOSE TEMPERATURE	°F	155
• TACK FREE TIME	SECONDS	20	• B-SIDE HOSE TEMPERATURE	°F	155
• FULL CURE	HOURS	24	• HYDRAULIC PRESSURE, PSI Minimum While Spraying		2200
• 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™ Structural**.



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**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 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 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 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.

**SAFETY HANDLING:**

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**SHELF LIFE & STORAGE:**

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

**PACKAGING:**

Green Monster™ Structural is provided in 110 gallon kits.

