



TECHNICAL DATA SHEET

**PRODUCT: RR 401G**

**DESCRIPTION**

HMI RR 401G is a hydrophobic two-part polyurethane foam designed for heavy slab lifting such as highways and industrial floors.

<b>RR 401G</b>		
<b>Test Method:</b>		
<b>Density</b>		
ASTM D1622	Average (lbs/ft <sup>3</sup> )	4
<b>Compressive Strength</b>		
ASTM D1621	Peak Stress (PSI)	90
	Peak Strain (%)	7
	Yield Stress (PSI)	100
	Yield Strain (%)	8
<b>Tensile Strength</b>		
ASTM D1623	Average (PSI)	85
	Elongation (%)	<5
<b>Thermal and Humid Aging</b>		
ASTM D2126	Average Volume Change (%)	<1
<b>Other</b>		
HMI Testing	Time at Reaction (hh:mm:sec)	00:00:16
	Peak Exotherm (°F)	257
	Time at Peak Exotherm (hh:mm:sec)	00:00:25
	Time at Tack Free (hh:mm:sec)	00:00:26
	Time at Peak Expansion (hh:mm:sec)	00:00:27

1025 E. Albert Drive Manitowoc, Wisconsin 54220

Phone 800.414.0049

Fax 920.482.0031

www.HMICompany.com

### **EQUIPMENT AND COMPONENT RATIOS:**

The two part polyurethane process will give optimal performance when all systems are operating in correct sequence. Recirculate the material well before use. RR A (part A) is connected to the isocyanate pump with HMI Polyol (part B) connected to the resin/polyol pump. Part A and Part B must be mixed on a 1:1 ratio for designed reaction time, expansion rate, cure time, and density. It is recommended that this process be operated with a HMI Fusion Pro gun.

### **STORAGE OF CHEMICALS:**

Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from heat, sparks, open flame, strong oxidizers, radiation and other initiators. Keep container tightly closed and sealed until ready for use. Do not store above 100°F. Do not allow material to freeze; Condensation and moisture can cause the material to crystalize.

### **SAFE HANDLING OF LIQUID COMPONENTS:**

Take skin, auditory, eye and respiratory safety precautions during material handling and installation. Avoid breathing vapors or spray mists for long periods of time. Avoid contact with eyes, skin, and clothing. In case of eye contact, gently flush eyes with large amounts of water for at least 15 minutes and get prompt medical attention. If chemicals contact with clothing and skin, remove contaminated clothing and launder. Flush skin with lukewarm water for at least 15 minutes and seek medical attention if irritation to skin occurs. For more information, refer to *Polyol Resin Blends Safety and Handling Guidelines* (Technical Bulletin AX228) issued by Alliance for the Polyurethanes Industry. Arlington, VA: American Plastics Council.

### **CAUTION:**

If used incorrectly, the polyurethane foam may present a serious fire hazard. Part A and Part B mix to make foam that creates a chemical reaction which produces heat and fumes. While installing material, inject material, wait for expansion, wait to cool off, and then install additional material. DO NOT install additional material before this reaction is complete. Applying foams too thick in a single injection can build dangerously high temperatures inside the finished foam, which could lead to splitting, charring, or even spontaneous combustion. HMI recommends that thickness not exceed two inches for closed celled foams. If multiple passes are sprayed or injected, sufficient time must be allowed for the exothermic heat to dissipate before each additional injection is applied. The foam applicator/contractor engaged in the application or use of polyurethane material should be made aware of the combustibility of the foam and fire hazards it can present if misused or over applied. Proper precautions and safety measures should be utilized.

1025 E. Albert Drive Manitowoc, Wisconsin 54220

---

Phone 800.414.0049

Fax 920.482.0031

www.HMICompany.com