



RR401G – Hydrophobic | 4lb Concrete Raising Foam

Heavy-duty polyurethane foam perfect for DOT & industrial concrete repair.

Rocking concrete slabs caused by high traffic and heavy loads can lead to traffic hazards on our roads and possible OSHA issues in commercial or industrial settings.

These safety issues require resolution, and ultimately led us to create a foam specifically for DOT, municipal, industrial, and commercial applications.

About RR401G Hydrophobic Polyurethane Foam Material

RR401G is the latest innovation in perfecting specialized foams for residential, commercial and DOT contractors who are lifting and leveling concrete slabs even when a void is filled with water. This 3-4 pound hydrophobic / hydro-insensitive foam is a two-component polyurethane foam like RR401, but is a gas blown foam product. RR401 is a 4 lb. per cubic foot foam engineered to be stronger for lifting larger slabs. This foam will stand up to heavy loads and high traffic, and exceeds specifications required by DOT.

Why is hydro-insensitive foam important?

Hydro-insensitive means the presence of water in the soil will not affect the foam's reaction cure time, compressive strength or performance. Weather and drainage are no longer concerns and traditional delays and costs in completing projects are eliminated.

Raising and stabilizing concrete slabs with HMI dual component polyurethane foams.



Can polyurethane set-up and lift concrete while still maintaining its compressive strength, when it's pumped under concrete slabs where water is present?

The simple answer is **YES!**

With the HMI RR401G hydrophobic poly foam, lifting and maintaining lifted concrete is a cinch.



HMI foam specifically designed for joint/slab stabilization has a very long reaction time and minimal expansion strength. It will take longer to expand, allowing for better coverage under the slab or down a void along a joint.



RR 401G

Density ASTM D1622		HMI Testing	
Average (lbs./ft ³)	4 – 4.5	Time at Reaction (mm:sec)	00:16
		Peak Exotherm (°F)	257
Compression Properties ASTM D1621		Time at Peak Exotherm (mm:sec)	00:25
Modulus (psi)	1982	Time at Tack Free (mm:sec)	00:26
Proportional Stress (psi)	92	Time at Peak Expansion (mm:sec)	00:27
Proportional Elongation (%)	6.8		
Crushing Strength Stress Avg. (psi)	121	Water Absorption ASTM D2842	
Crushing Strength Elongation (%)	15.5	Water Absorption (Vol. Basis) (%)	0.39
		Water Absorption (Area Basis) (lb/ft ²)	0.09
		Water Absorption (Weight Basis) (%)	3.9
Tensile Properties ASTM D1623		Response to Thermal and Humid Aging	
Modulus (PSI)	5322	ASTM D2126	0.46
Proportional Stress (psi)	307	Change from Initial Volume (%)	
Proportional Elongation (%)	4.3		
Shear Properties ASTM C273			
Modulus (PSI)	494		
Proportional Stress (psi)	25.3		
Proportional Elongation (%)	20.0		
Breaking Strength Stress Avg. (psi)	49.4		
Breaking Strength Elongation (%)	64.0		

Did you Know?

HMI does not use Toxic Chemicals

Major toxic chemicals, often associated with some types of polyurethanes, such as some blowing agents, formaldehyde, benzene and toluene are NOT used in HMI foams. Most of what is warned against on the Internet pertains to these chemicals.

As Safe as the Cushions you sit on!

The foam we install under ground is like the foam in your mattress and or in your couch. Instead of it being built in a factory, we make the foam directly under the slab. Instead of being light and fluffy it is firm and strong.

Directly from the EPA

The EPA states that cured polyurethane is safe unless burned or ground into a fine dust.

ABOUT HMI – HMI, founded in 1974 is the world leader in: manufacturing equipment, system development and polyurethane material formulation for lifting and leveling concrete.

