

Hydrophobic Polyurethane Grout Cartridge Application

Product Description

Hydro Seal Injection Urethane is a custom-formulated flexible hydrophobic polyurethane waterstop packaged in two-component cartridges. The convenient cartridge package allows the product to be used for leaking cracks and joints in residential and commercial basements, garages and parking structures. The cartridge system is suitable for repairs in confined spaces where pump injection is not practical.

Hydro Seal Injection Urethane is dispensed by using standard, two-component caulking guns equipped with static tube mixers. Hand, battery or air-operated guns are acceptable. No premixing of additional components is required.

Table 1. Physical Properties of Uncured Materials

Hydro Seal Injection Urethane

	Part A	Part B	Measurement	Test method
Color	pale yellow	Brown		visual
Specific gravity	1.04	1.044		ASTM D-891
Viscosity at 77°F (25°C)	195	170	centipoises	ASTM D-4878
Storage stability	12	12	months	
Corrosiveness	non-corrosive	non-corrosive		
Flash point	390 (199)	> 300 (>149)	Fahrenheit (Celsius)	

DOT regulations

Hazard class	not regulated	not regulated		
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Table 2: Physical properties of cured materials

	Hydro Seal Injection Urethane	Measurement	Test method
Tensile strength	55	psi	ASTM D-412
Elongation	140	percent	ASTM D-412
Die-C tear	8	pli	ASTM D-624
Pot life at 77°F (25°C)	10	minutes	
Shrinkage by weight	1-2	percent	in-house
Shrinkage by volume	2-12	percent	in-house
Density	60	pcf	in-house

Hazard level	
Toxicity	non-toxic

Note: These values were generated while simulating a situation where Hydro Seal Injection Urethane was applied under pressure similar to typical field condition applications.

Site preparation

The temperature of the wall may alter the reaction time of Hydro Seal Injection Urethane when it is injected. Colder walls and concrete will extend the reaction time. Warmer walls will shorten the reaction time. The reaction can be accelerated by heating Hydro Seal Injection Urethane. Our recommended application temperature is between 55°F to 90°F (12.8°C to 32.2°C). See the tables above.

Precautions

This material is intended to be used by trained professionals with the proper equipment. The following safety measures are recommended:

- Wear protective gloves, clothing, goggles, hearing protection for noise reduction and hard hats for falling debris.
- Do not eat, drink or smoke while in active contact with these materials.
- Avoid skin contact.
- Wash hands thoroughly with soap and cool water. Never wash the skin with a solvent.
- Anyone experiencing difficulty breathing when working with these materials or showing an allergic reaction should seek fresh air immediately and consult a physician if symptoms persist.

Depending on the scope of the project, it may be advisable to consult a manufacturer's representative during installation.

Material storage

Cartridges should be stored above 60°F (15°C) and below 120°F (48°C). Open cartridges should be used quickly to avoid the material gelling in the cartridge or static mix nozzle. Refer to the material safety data sheets (MSDS) for further information regarding these materials.

All spills of Hydro Seal Injection Urethane should be disposed by absorbing the grout into an inert material and then transferring the mixture to an open top drum. Do not seal the waste drums for 24 hours to allow the Hydro Seal Injection Urethane to react completely. Dispose of waste material in accordance with state and local regulations.

Packaging

Hydro Seal Injection Urethane is available in tubes, gallon, and pails.

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