

## Hydrophobic Polyurethane Grout Cartridge Application



### Product description

Azo-Grout 552 is a custom-formulated hydrophobic waterstop and void filling product packaged in two component cartridges. Typical use includes stopping fast flowing water infiltration in joints, cracks and pipe intrusion areas. Azo-Grout 552 can be used to fill the holes and voids between the pipes and concrete. The convenient cartridge package allows easy access to hard to reach places. The fast reaction time of the material helps to stop water quickly before the resin is washed away.

Azo-Grout 552 is dispensed using two component caulk guns equipped with static tube mixers. Hand, battery, or air operated guns are acceptable. No premixing of additional components is required. Static mix nozzles are provided with the cartridges.

**Table 1: Physical properties of uncured materials**

	Azo-Grout™ 552		Measurement	Test method
	Part A	Part B		
Color	pale yellow	clear		visual
Specific gravity	1.04 - 1.05	1.22		ASTM D891
Viscosity at 77°F (25°C)	400-500	175-225	centipoise	ASTM D4878
Storage stability	12	12	months	
Corrosiveness	non-corrosive	non-corrosive		
Flash point	190	> 390	Fahrenheit (Celsius)	
<b>DOT regulations</b>				
Hazard class	not regulated	not regulated		

**Table 2: Physical properties of cured materials**

	Azo-Grout™ 552	Measurement	Test method
Tensile strength	38 ± 7	psi	
Elongation	3.5	percent	
Pot life at 77°F (25°C)	< 20	seconds	
Density	2.5 - 3	pcf	in-house
<b>Hazard level</b>			
Toxicity	non-toxic		

Note: These values were generated while simulating a situation where Azo-Grout™ 552 was applied under pressure similar to typical field condition applications.

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### Site preparation

The temperature of the wall may alter the reaction time of Azo-Grout 552 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 Azo-Grout 552. Our recommended application temperature is between 55°F to 90°F (12.8°C to 32.2°C). See the tables to the right.

### Yield

A typical cartridge will fill a volume of 1143 cubic inches (18730 cubic centimeters) or a 1-inch (25.4-millimeter) crack in an 8-inch (203-millimeter) thick by 8-foot (2.4-meter) high wall.

### 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.

### Health and safety

Safety data sheets and product labels must be reviewed prior to use or handling the material.

### 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. All spills of Azo-Grout 552 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 Azo-Grout 552 to react completely. Dispose of waste material in accordance with state and local regulations.

### Packaging

Azo-Grout 552 is available in kits consisting of 12, two-component cartridges; 12 static mix nozzles and nuts.

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