

Hydrophobic Polyurethane Grout Cartridge Application



Product description

Azo-Grout™ 425 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.

Azo-Grout 425 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. Static mix nozzles and nuts are provided with the cartridges.

Table 1: Physical properties of uncured materials

Azo-Grout™ 425				
	Part A	Part B	Measurement	Test method
Color	pale yellow	clear		visual
Specific gravity	1.04	1.044		ASTM D891
Viscosity at 77°F (25°C)	450-550	570-670	centipoise	ASTM D4878
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

	Azo-Grout™ 425	Measurement	Test method
Tensile strength	55	psi	ASTM D412
Elongation	140	percent	ASTM D412
Die-C tear	8	pli	ASTM D624
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	10-15	pcf	in-house

Hazard level

Toxicity	non-toxic		
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Note: These values were generated while simulating a situation where Azo-Grout™ 425 was applied under pressure similar to typical field condition applications.

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<p>Azo-Grout™ 425 concrete crack repair instructions Hydrophobic Polyurethane Grout</p>		<p>For technical information or assistance with repairs, call customer support: Toll free 1-866-494-7688</p>	
<p>Step 1. Drilling Drill a series of staggered holes along the full length of the leaking crack. Space the holes 4 to 6 inches apart starting at the bottom. For best results, insert the drill at a 45-degree angle toward the crack.</p> <p>hammer drill with 3/8" x 12" masonry bit</p>		<p>Step 4. Injecting Azo-Grout™ Working from the bottom to the top, insert the nozzle into the first hole and squeeze the cartridge gun three to four times. Depending on the size of the leaking crack, one cartridge should be sufficient to treat approximately 8 feet. See Step 5. Inserting plugs.</p> <p>3/8" plug</p>	
<p>Step 2. Flushing with water Attach the valve and nozzle supplied with the kit to a garden hose. (A pump sprayer may also be used to supply water.) Starting at the bottom, flush each hole while adjusting the water to a low-pressure stream using just enough water to flush the debris from each hole and to wet the entire crack.</p> <p>Tip: Water promotes a foaming reaction of Azo-Grout™ within the crack.</p>		<p>Step 5. Inserting plugs When a milky liquid appears insert a threaded plug into the hole to contain the reacting polyurethane. Allow 30 minutes before pulling out the reusable plugs. If any water reappears, you may need to repeat Steps 1-5 until the crack is repaired.</p> <p>Tip: Plugs contain reacting grout within the crack for easier clean-up.</p>	
<p>Step 3. Assembling the cartridge Shake cartridge well before installing nozzle. Remove outer and inner cap on outlet port. Attach applicator nozzle with threaded retaining nut. Place the cartridge in the dispensing gun.</p>		<p>Step 6. Cleaning and finishing With a flat-bladed tool, remove any excess grout on the exterior of the crack. Patch any holes using a putty knife, with the Azo-Grout™ Concrete Patch or similar patching material.</p>	
<p>AZON USA INC., 2204 Ravine Road, Kalamazoo, Michigan 49004-3516 Tel: 269.492.1300 • Fax: 269.492.1301 • Web site: www.azogROUT.com</p> <p style="text-align: right;"><small>©AZON 2008 AG425UGPAGE002</small></p>			

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Site preparation

The temperature of the wall may alter the reaction time of Azo-Grout 425 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 425. Our recommended application temperature is between 55°F to 90°F (12.8°C to 32.2°C). See the tables to the right.

A typical cartridge will fill a volume of 302 cubic inches (4.94 liters) or a 3/16-inch (4.8-millimeter) crack in an 8-inch (203-millimeter) thick by 8-foot (2.4-meter) high wall.

Precautions

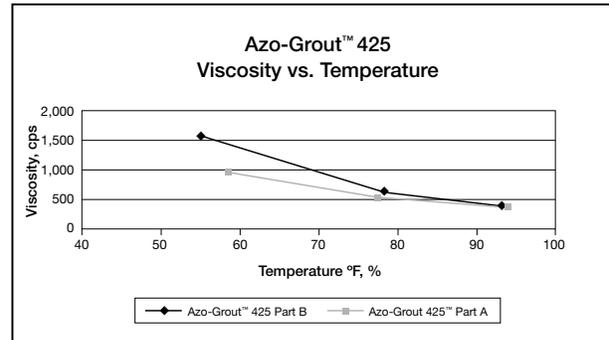
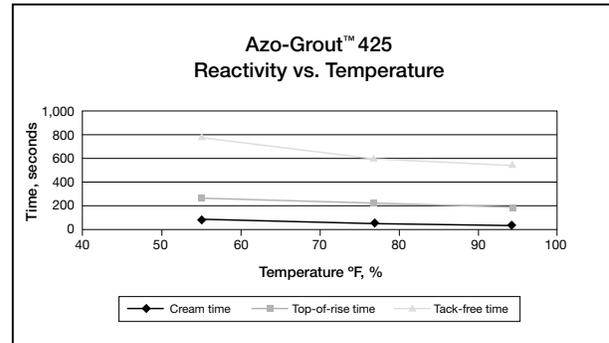
This material is intended to be used by trained professionals with the proper equipment. The following safety measures are recommended:

- 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.

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 Azo-Grout 425 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 425 to react completely. Dispose of waste material in accordance with state and local regulations.

Packaging

Azo-Grout 425 is available in kits consisting of 12, two-component cartridges; 12 static mix nozzles and nuts.

WARRANTY The information contained in this document is to assist customers in determining whether our products are suitable for their applications. Our products are intended for sale to industrial and commercial customers. The customer must inspect and test our products before use, and satisfy themselves as to the contents and suitability. Nothing herein shall constitute a warranty, expressed or implied, including any warranty of merchantability or fitness, nor is protection from any law or patent to be inferred. All patent rights are reserved. The exclusive remedy for all proven claims is replacement of our materials, and in no event shall we be liable for special, incidental or consequential damages.