# Azo-Grout 425

## Hydrophobic Polyurethane Grout Cartridge Application



## **Product description**

Azo-Grout<sup>™</sup> 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 <sup>∞</sup> 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			

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

	Azo-Grout <sup>™</sup> 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				
Density	10-15	pcf	in-house			
	Hazard level					
Toxicity	non-toxic					

Note: These values were generated while simulating a situation where Azo-Grout<sup>®</sup> 425 was applied under pressure similar to typical field condition applications.



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Figure 1. Application method

## Azo-Grout 425 concrete crack repair instructions

#### Hydrophobic Polyurethane Grout

#### 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.



#### 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.



#### Step 3. Inserting Bak-Stop"

Press the Bak-Stop<sup>™</sup> into the first hole and tap firmly using a hammer to ensure the tip is fully inserted. Continue inserting the Bak-Stop ports until all of the holes are filled.



#### Step 4. 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.



#### Step 5. Injecting Azo-Grout<sup>™</sup>

Working from the bottom to the top, insert the nozzle into the first Bak-Stop\* 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 3. Inserting Bak-Stop



#### Step 6. Cleaning and finishing

With a flat-bladed tool, remove any excess grout on the exterior of the crack. For exposed walls that require a smooth appearance, remove Bak-Stop™ ports with pliers. Patch any holes using a putty knife, with the Azo-Grout™ Concrete Patch or similar patching material.



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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.

## Yield

A typical cartridge will fill a volume of 302 cubic inches (5074 cubic centimeters) 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.

## Health and safety

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

#### Figure 2.







## 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 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, twocomponent cartridges; 12 static mix nozzles and nuts.

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