

Azo!Grout™

Starter kit
user guide

Fast • Clean • Reliable



Technology
Chemicals
Machinery

Thank you for trying Azo-Grout™!

We are pleased you purchased the Azo-Grout™ starter kit. Everything you need for repairing cracks in interior or exterior concrete structures was considered in the design and assembly of the repair kit system.

The Azo-Grout™ product team

Azo-Grout™ starter kit components

Part no.	Qty	Description
079-00220	1	Dual cartridge dispensing gun
AGT-675LVD-C300	3	Azo-Grout™ 675 dual cartridges (22 oz /624 g ea)
079-00007	3	1/4" static mixing nozzles
079-00002	3	Threaded retaining nuts
079-00315	2	Pair of latex gloves
079-00310	1	Pair of safety glasses
079-00305	1	1 1/2" putty knife
079-00500	1	Azo-Grout™ Concrete Patch (16 oz / 473 ml)
079-00300	30	3/8" plastic plugs
079-00400	1	Hose shut-off valve
079-00405	1	Hose nozzle
AGT675LVDOM-KIT00	1	Azo-Grout™ Starter kit user guide

Additional supplies required

- 600-watt-rated hammer drill
- 3/8" x 12" masonry bit for drill
- Flat-bladed tool
- Water supply (garden hose or portable pump sprayer)

For your safety, please work in a well-ventilated space and use the provided gloves and safety glasses. See DRWg 5R&R Sheet for additional information.

For technical information or assistance with repairs,
call customer support:

Toll free 1-866-494-7688

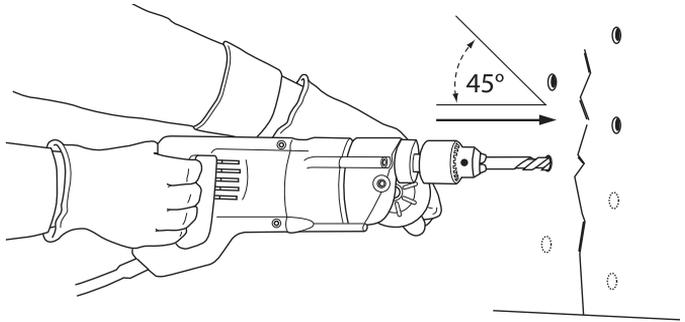
Monday - Friday 8:30 a.m. - 5:00 p.m. ET

Azo-Grout™ concrete crack repair instructions

Step 1. Drilling

Using a hammer drill, beginning at the bottom, drill a series of staggered holes along the full length of the leaking crack. Space the holes 4 to 6 inches apart, as shown in Figure 1. To ensure the masonry bit penetrates the crack, it is best to insert the drill at a 45-degree angle toward the crack.

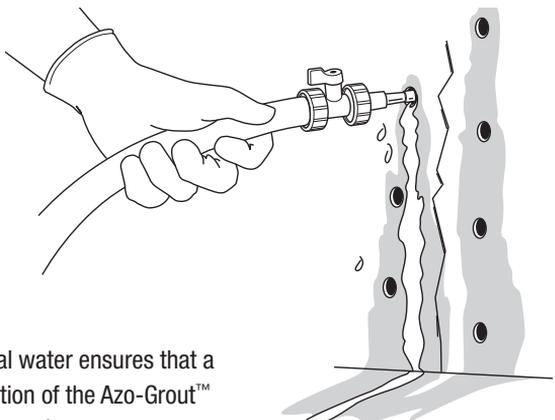
Figure 1



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, allowing just enough clean water through to flush out the debris from each hole and to wet the entire crack (Figure 2).

Figure 2



Tip:

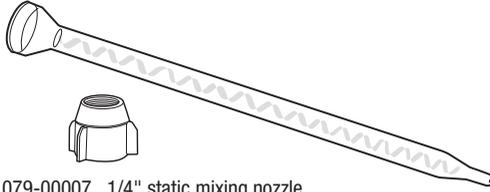
Introducing additional water ensures that a proper foaming reaction of the Azo-Grout™ will occur within the crack.

Azo-Grout™ concrete crack repair instructions — continued

Step 3. Assembling the cartridge

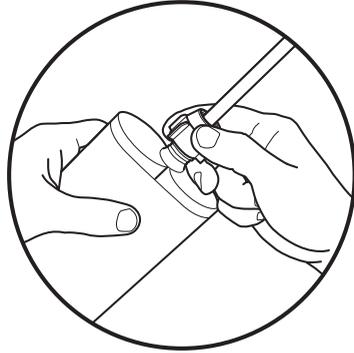
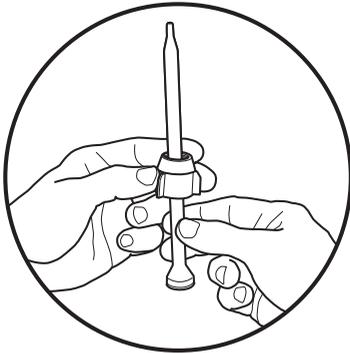
Assemble the cartridge by removing the inner cap on the outlet port. Replace the inner cap with the static mixing nozzle by attaching the nozzle with a threaded retaining nut (Figure 3). Place the cartridge in the dispensing gun. You are now ready to inject the waterstop into the crack.

Figure 3



pt # 079-00007 1/4" static mixing nozzle

pt # 079-00002 Threaded retaining nut

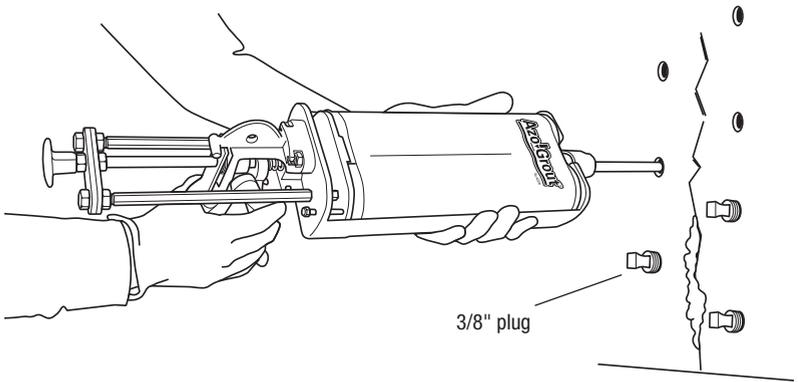


Step 4. Injecting Azo-Grout™

Working from the bottom to the top, insert the nozzle into the first hole and squeeze the cartridge gun three to four times. A temporary plug will need to be inserted into each hole immediately after injecting Azo-Grout™ 675 (see Step 5, page 5 for details). Depending on the size of the leaking crack, one cartridge should be sufficient to treat approximately 8 feet.

As the waterstop reacts in the cracks, some of the reacted foam will appear on the exterior. The excess foam indicates the grout is sealing.

Figure 4



Please note:

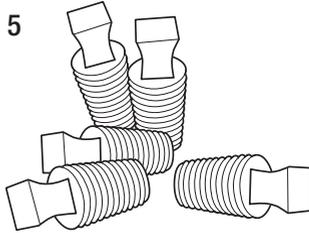
Since Azo-Grout™ is a fast-reacting hydrophilic foam-gel, it is important to dispense the contents of the cartridge within a short period of time. To avoid nozzle plugging and flow restriction, do not interrupt the injection process for more than 30 seconds at a time. This is why each cartridge is provided with its own static mixing nozzle.

Azo-Grout™ concrete crack repair instructions — continued

Step 5. Inserting plugs

Within seconds of injecting Azo-Grout, a milky liquid will appear in the hole. As soon as the milky liquid appears, insert a threaded plug to contain the reacting polyurethane. Allow 30 minutes before pulling out the reusable plugs and save them for the next job. In the event water reappears, you may need to repeat the drilling and injecting process until the crack is repaired.

Figure 5



pt # 079-00300 3/8" plastic plugs

Tip:

Plugs serve two functions by containing the reacting grout within the crack and making clean-up of the site easier.

Step 6. Cleaning and finishing

With a flat-bladed tool, remove any excess grout on the exterior of the crack. Using the putty knife, patch the holes with the Azo-Grout™ Concrete Patch as provided in the Azo-Grout™ starter kit (Figure 6).

Figure 6



Specifications

Application range

Azo-Grout™ 675 hydrophilic foam-gel is formulated for crack and joint sealing, and stopping water infiltration in the following applications:

Residential and commercial

- Poured concrete walls
- Plumbing and sewer pipes

Municipal and utility facilities

- Precast manhole joints
- Brick manholes
- Sewer pipes

Pedestrian and automotive tunnels

- Curtain injection
- Gel encapsulation
- Joint sealing

Concrete dams and powerhouse galleys

- Curtain injection
- Gel encapsulation

Table 1: Physical properties of cured materials

Water:grout ratio	1:1	3:1	5:1	8:1	Measurement	Test method
Gel time	110	100	90	100	seconds	
Tensile strength	431.1	261	>163.9	>145	psi	ASTM D-638
Elongation	462.1	1,140	>1,250	>1,250	percent	ASTM D-638
Die-C tear	49	51.7	43.1	43.3	pli	ASTM D-624
Physical form	resilient foam	resilient foam	expansive gel	expansive gel		

Note: Table 1 represents physical properties at a range of resin to water ratios. These values were generated while simulating a situation where Azo-Grout™ 675 was applied under pressure similar to typical field condition applications.

- Apply during frost-free conditions
- Protect from freezing and avoid extreme temperatures during storage
- Store between 40°F to 100°F (5°C to 38°C) range
- Do not reseal applicator contaminated by moisture
- Excess grout material can be disposed of in normal waste containers



See *Product Data Sheet* and *Uchqv Data Sheet*. For additional product information, contact supplier.

Azo!Grout™

Azo-Grout™ 675 is a non-epoxy, high shear, polyurethane solution for stopping water leaks through poured concrete walls and manholes.

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AND STRUCTURAL REPAIR CONTRACTORS, INC.™

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CE standards certification

ISO 9001:2000
Certification

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