



INSTANT WATER STOP

Quick-setting hydraulic cement to plug leaks in concrete and masonry

1. PRODUCT NAME

Akona® Instant Water Stop

2. MANUFACTURER

Bluestone Products™, a TCC Materials® company
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3. PRODUCT DESCRIPTION

Akona Instant Water Stop is a quick-setting hydraulic cement compound used primarily as a water stop or hole filler. It expands when set and locks into place to block flowing water in 3 to 5 minutes. For use only on concrete and masonry materials. Best for repairing leaks in cracks between blocks or on one surface, not for stopping water flow in corners.

Features and Benefits

- Bonds to wet walls
- Sets in 3-5 minutes
- Just add water, mix, and use
- Stops seepage leaks
- Paintable when cured

When/Where to Use

- Plugs holes in masonry and concrete for use on vertical surfaces
- Seals water flow in basement
- Swimming pool and fountain repairs
- Above and below grade
- Interior and exterior use

4. TECHNICAL DATA

Typical Values • Akona Instant Water Stop	
Initial Set Time	Approximately 2-3 minutes
Final Set Time	Approximately 3-5 minutes
Compressive Strength ASTM C109 (air dry)	
1 hour	> 1,600 psi (11.03 MPa)
24 hours	> 2,500 psi (17.3 MPa)
3 days	> 4,500 psi (31.1 MPa)
28 days	> 5,500 psi (38.0 MPa)

Greater than: > Greater than or equal to: ≥ Less than: < Less than or equal to: ≤
Note: Test results obtained under controlled laboratory conditions at 72°F (22°C) and 50% relative humidity. Reasonable variations can occur due to atmospheric and job site conditions.

Available Sizes

- 10 lb. (4.5 kg) bag (BOM # 102635)
- 25 lb. (11 kg) bag (BOM # 102636)

Coverage

- 1 lb. (0.45 kg) fills approximately 18 cu. in. (295 cm³) or a 1 in. deep x ¼ in. wide x 6 ft. long crack (2.5 cm x 0.6 cm x 1.8 m)
- Each 25 lb. (11 kg) bag will yield 0.21 cu. ft. (6 L) of wet mortar

5. INSTALLATION

Preparation

Read all directions before starting work. Proper surface preparation is crucial to achieving a successful application.

1. Remove all loose or unsound materials. Thoroughly clean surface of dirt, dust, grease, paint, or other contaminants before patching, topping, or placing overlays.
2. Use only when the product, air and surface temperatures are between 40°F-80°F (4°C-27°C) within 48 hours of application. For best results keep material cool and out of direct sunlight prior to application. Protect repair from freezing for 72 hours.
3. Enlarge hole or crack to ½ in. (1.3 cm) or greater width and depth, make hole/crack bigger at back than on the front surface, this allows the Instant Water Stop to lock into place as it expands while setting. Avoid V-shape cuts.

4. IF SURFACE IS DRY, PRE-WET JUST PRIOR TO APPLICATION OF PRODUCT.

Note: It is the responsibility of the installer/applicator to ensure the suitability of the product for its intended use.

Mixing

1. Use cool, potable water, clean tools and clean containers. No bonding additive is needed.
2. **MIX ONLY THE AMOUNT THAT CAN BE APPLIED WITHIN 2-3 MINUTES.** Warmer temperatures will reduce working time. The use of cold water at high temperatures or warm water at low temperatures will aid in adjusting the set time.
3. Mix approximately one part water to four parts Instant Water Stop. Mixing small batches of 4 - 4½ oz. (113-170 g) of powder into 1 oz. (28 g) of water is ample for filling most holes. Always add the powder into the liquid to avoid lumps. Consistency should be stiff, but thoroughly mixed with no materials left dry. Typical mixing time is ±30 seconds.

Application

1. After mixing is completed, immediately apply material with trowel or gloved hands. Wear proper protective gloves (butyl or nitrile) at all times, failure to do so can result in severe burns.
2. Hold in place for 3 to 5 minutes with light pressure when plugging a hole with actively flowing water.
3. The mixed Instant Water Stop can also be placed in a small plastic bag, while holding close to the hole, turn the bag inside-out and force the mixed product quickly into the hole from the bag.
4. When repairing inactive leaks with no running water present, thoroughly dampen the area being patched prior to application.
5. After 3 to 5 minutes, Instant Water Stop will be firm enough to shave using a steel trowel. Shave small amounts at a time to make flush with the surrounding surface.

Curing

Product should be air-cured, no curing compounds are needed. Repair can be painted with latex masonry paint once repair has cured a minimum of 14 days and area remains dry.

Clean Up

Use soapy water to clean hands and tools immediately after use. Dried material must be mechanically removed. Use a waste water hardener (e.g. Congelz® or similar product) for cementitious waste disposal.

Limitations

- Follow all industry standard safety procedures when handling, such as gloves and eye protection. Wear gloves at all times, failure to do so can result in severe burns.
- Use only clean mixing containers and tools.
- **Not for use as a horizontal resurfacers**
- Do not add any materials other than clean potable water.
- Do not use as a paint or trowel applied waterproofing.
- Do not use as a slurry coat.
- Do not cover or fill expansion or control joints.
- Do not apply over concrete cured less than 7 days or that are frozen or contain frost.
- As with all cementitious materials, avoid contact with aluminum to prevent adverse chemical reactions and possible product failure.



Safety

READ THE SAFETY DATA SHEET (SDS) BEFORE USING THIS PRODUCT. SDS information is available on our website: tccmaterials.com

Cautions

Read complete cautionary information printed on product container prior to use.

This Product Data Sheet has been prepared in good faith on the basis of information available at the time of publication. It is intended to provide users with information about and guidelines for the proper use and application of the covered Akona brand product(s) under normal environmental and working conditions. Because each project is different, TCC Materials cannot be responsible for the consequences of variations in such conditions, or for unforeseen conditions.



6. AVAILABILITY

To locate Akona products in your area, please contact:

Phone: 1.651.688.9116
 Email: info@tccmaterials.com

7. WARRANTY

Seller warrants that its product will conform to and perform in accordance with the product specifications. The foregoing warranty is in lieu of all other warranties, expressed or implied, including, but not limited to those concerning merchantability and fitness for a particular purpose. Because of the difficulty in ascertaining and measuring damages hereunder, it is agreed that Seller's liability to the Buyer shall not exceed the total amount billed and billable to the Buyer for the product hereunder.

Shelf Life	Best when used within one year in original, unopened bags
Storage Conditions	Store dry, cool, out of direct sunlight. Best to condition material to 50-80°F (10°-27°C) before using.
Color	Gray

WARNING: INJURIOUS TO EYES

KEEP OUT OF REACH OF CHILDREN

