



INSTANT ANCHORING CEMENT

Quick-setting anchoring cement compound

1. PRODUCT NAME

Akona® Instant Anchoring Cement

2. MANUFACTURER

Bluestone Products™, a TCC Materials® company
2025 Centre Pointe Blvd., Suite 300
Mendota Heights, MN 55120 USA
Phone: 1.651.688.9116
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3. PRODUCT DESCRIPTION

Akona Instant Anchoring Cement is a quick-setting anchoring cement compound used for setting poles, railings, bolts, and fixtures in concrete or masonry. Suitable for interior or exterior use. Expands as it hardens to set securely and lock in place for strong support. Any metals that will corrode when exposed to wet cement, such as aluminum, must be protected.

Features and Benefits

- Expands as it hardens to set securely
- Sets in approximately 20 minutes
- Add water, mix, and use

When/Where to Use

- Interior and exterior
- Sets handrails, bolts, poles, and fixtures
- Concrete or masonry

4. TECHNICAL DATA

Applicable Standards:

- ASTM C109 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2 in. (50 mm) Cube Specimens)
- ASTM C191 Standard Test Method for Time of Setting of Hydraulic Cement by Vicat Needle.
- ASTM E488 Standard Test methods for Strength of Anchors in Concrete and Masonry Elements

Meets or exceeds these physical properties when tested in accordance with ASTM standards.

*Pull-out Strength was tested with a ½ in. (12.7 mm) diameter threaded bolt

Typical Values • Akona Instant Anchoring Cement	
Initial Set Time	Approximately 10-15minutes
Final Set Time	Approximately 20 minutes
Compressive Strength ASTM C109 (air dry)	
1 hour	> 1,600 psi (11.03 MPa)
24 hours	> 4,000 psi (27.6 MPa)
3 days	> 6,000 psi (41.4 MPa)
28 days	> 7,000 psi (48.3 MPa)
Pull-out Strength* ASTM E488	
24 hours	> 14,100 lb.-force (6395 kg-force)
28 days	> 21,000 lb.-force (9525 kg-force)

embedded to a depth of 8 in. (203 mm) in a 2 in. (51 mm) diameter hole which was bored in concrete with a compressive strength of approximately 4,000 psi (27.6 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 Size

- 10 lb. (4.5 kg) bag (BOM # 102645)

Coverage

- 1 lb. fills approximately 17 cu. in. (279 cm³) or anchors 2 fixtures in a 2 in. (5 cm) diameter hole with a depth of 2 in.

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. Surface to be anchored must be sound and capable of supporting the fixture (minimum 3,000 psi 20.7 MPa).
3. Use a masonry core drill or chisel to create a hole in the concrete. Remove all loose materials from the hole.
4. Ensure that the hole is large enough to allow cement to flow between fixture and concrete. Diameter of the hole should be 3 to 4 times the diameter of the fixture being placed, and hole depth should be 8 to 12 times the fixtures diameter. Typical hole clearance is a minimum of 1 in. (2.5 cm) larger than the fixture being anchored. Hole should be at least 2-4 in. (5-10 cm) deep and a minimum of 4 in. (102 mm) from the edge of the slab. Increased depth will also increase the pull-out strength.
5. For best results, do not apply when temperatures will drop below 40°F (4°C) within 48 hours of application. Materials should be stored between 40°F-80°F (4°C-27°C) 24 hours prior to installation. Protect application from freezing for 48 hours.
6. Just prior to application, flush hole with clean water, remove any unabsorbed puddles of water, leaving the hole damp.

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 the 10-15 minute working time.** 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 2 fl. oz. (.06 L) of water to 1 cup (200 g) of Instant Anchoring Cement (approximately 5 parts powder to 1 part water, or 1-½ pt. water with one 10 lb. bag). Always add powder into liquid to avoid lumps. Mixture will be a thick batter-like consistency. Additional water will reduce strength, adhesion and long term durability. When anchoring into walls, use less water to form a much stiffer putty-like consistency.
4. Mix to a uniform consistency by hand or use a mechanical mixer until a pourable consistency is reached. Avoid high speed mixing which can entrap air.

Application

1. Place item to be anchored in the hole and stabilize from movement while pouring Instant Anchoring Cement mixture into the hole. Compact as needed, to ensure solid contact with fixture and to release any entrapped air from the cement mixture. If area is subject to water, taper the mixture to direct drainage away from fixture.

2. Let set for 1 hour minimum before applying torque to bolt or fixture.

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.
- Do not add any materials other than clean potable water.
- Do not cover or fill expansion or control joints.
- Do not apply over concrete cured less than 28 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



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