AKONAKOTE® POURABLE CONCRETE PATCH

Flowable, squeegee-grade, polymer-modified concrete patching and resurfacing

1. PRODUCT NAME

Akona® Akonakote® Pourable Concrete Patch

2. MANUFACTURER

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

Akona Akonakote Pourable Concrete Patch is a flowable, squeegee-grade, polymer-modified, Portland cement based, patching and resurfacing mix. Pourable Concrete Patch is easy to mix and use, it corrects defects on concrete surfaces up to ½ in. (1.3 cm). This product can be used as an underlayment prior to applying new flooring materials or coatings. Also, depending on application, the product can be used as a wearable surface for residential and light duty commercial floors. For deeper repairs over ½ in. (1.3 cm) in concrete floors, it is advisable to use a product like Akona Instant Patching Cement prior to using this product.

Features and Benefits

- Polymer-modified for superior adhesion
- Flowable and pourable
- Trowel or stiff-edge blade applied
- Add water, mix, and use
- Fast setting, high performance

When/Where to Use

- Interior and exterior concrete
- Use to correct defects in concrete surfaces up to ½ in. (1.3 cm) prior to applying new flooring materials or coatings
- Use to level and smooth finish on interior subfloors before the installation of floor coverings
- Can be used as a patch to fill seams, holes, and cracks
- Use to level rough or uneven surfaces

4. TECHNICAL DATA

Greater than: > Greater than or equal to: ≥ Less than: < Less than or equal to: ≤

Typical Values • Akonakote Pourable Concrete Patch	
Time of Setting (ASTM C191)	
Initial Set	Approximately 2 hours
Final Set	Approximately 5 hours
Liquid Requirement	3 qt. (2.8 L) per 50 lb. (22.7 kg) Do not exceed 3½ qt. (3.3 L)
Tensile Strength ASTM C307	
Average PSI	257 psi (1.77 MPa)
Compressive Strength ASTM C109 (air dry)	
3 days	> 2,120,psi (14.6 MPa)
7 days	> 3,000 psi (20.6 MPa)
28 days	> 3,500 psi (24.1 MPa)

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.

Applicable Standards:

- ASTM C109/C109M Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using 2 in. (50 mm) Cube Specimens)
- ASTM C157 Standard Test Method for Length Change of Hardened Hydraulic-Cement, Mortar, and Concrete.

Available Sizes

- 50 lb. (22.7 kg) bag (BOM #104626)

Coverage

- 1 sq. ft. per lb. at ⅛ in. thickness (0.09m^2 per 0.45 kg at 3 mm)
- Each 50 lb. (22.7 kg) bag covers approximately 25 sq. ft. at ¼ in. (2.2m^2 at 6.3 mm) thickness

5. INSTALLATION

Preparation

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

1. All surfaces must be structurally sound. Remove all dirt, dust, waxes, sealers, old adhesive residue, oil, grease, curing compounds, or other foreign materials that could inhibit bonding prior to application. Concrete must be at least 28 days of age and free of efflorescence and any standing water.
2. Apply only to surfaces that are frost-free and above 50°F (10°C) and below 90°F (32°C) within 24 hours of application and 72 hours thereafter and when rain is not predicted to fall on the surface for 24 hours after application.
3. Surfaces should be a light broom finish or rougher to ensure proper bond adhesion. Smooth troweled or dense concrete surfaces must be mechanically roughened. For best results, apply to clean surface with a concrete surface profile texture between CSP 4 and CSP 6 as referenced in the International Concrete Repair Institute (ICRI) Technical Guideline No 310-2. Mechanical methods such as grinding, shotblasting, scarifying, or sanding can be used to create surface texture.
4. Repair deep areas, holes, and non-moving cracks with Akona Vinyl Cement Patch or Instant Patching Cement (sold separately) prior to application of Pourable Patch and allow curing as recommended for the product.
5. Just prior to application, pre-dampen surface to be repaired with clean water to saturated surface dry (SSD) condition with no standing water remaining.

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. DO NOT USE A BONDING AGENT, mix with water only.
2. Mix only the amount that can be applied within the 25-35 minute average working time.
3. For mixing, use a ½ in. (1.3 cm) drill rated at 300-450 rpm with a square mortar paddle attachment. Using a drill rated higher than 450 rpm can result in entrapping air which could lead to pin holes in the finished patch. Mix one 50 lb. (22.7 kg) bag at a time.
4. Add 3 qt. (2.8 L) of clean water to an empty 5 gal. (18.9 L) bucket. Always add powder to liquid to avoid lumps. While operating drill mixer, slowly add the full bag of powder to water, mixing until a smooth, lump-free consistency is achieved. Additional water can be added if necessary to achieve a flowable consistency. Total water used should not exceed 3½ qt. (3.3 L).

5. Mix time should be between 2-3 minutes at room temperature with conditioned materials (65°F/18°C). Over mixing or over watering may result in decreased strength and possible cracking. Warmer temperatures will reduce the working time. The addition of cold water at high temperatures, or warm water in low temperatures will aid in adjusting the mix temperature.

Application
1. Use a trowel or stand-up stiff-edge blade to apply the mixture to the pre-dampened area. To achieve a smooth finish, apply a light touch with a freshly cleaned, damp application tool.
2. Wearable surfaces may be textured with a broom finish before fully set.
3. Protect new surface from use until material is completely hard and set (approximately 6 hours for light foot traffic). Keep wheeled traffic off for a minimum of 24 hours.

Curing
Refrain from using curing/sealing/painting compounds over patching materials for a minimum of two weeks. Under hot and windy conditions, all concrete tends to lose moisture unevenly and may develop plastic shrinkage cracks. Protect from excessive drying due to temperatures, air movement, and direct sunlight. Do not allow freezing for a minimum of 72 hours.

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.
- Do not use over gypsum, residual adhesives, particle board, plywood, plastics, vinyl, epoxy, or urethane floor coatings.
- Use within the temperature range of 40°-90°F (4°-32°C).
- Do not add any materials other than clean potable water.
- Do not use more than the recommended amount of water. Overwatering may cause excessive shrinkage and cracking.
- 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.
- Not suitable for stamping overlays.
- As a wear surface, best for residential and light commercial applications.

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: infotccmaterials.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 here-under.

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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