



AKONAKOTE™ POURABLE CONCRETE PATCH

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

©AKONA MANUFACTURING, LLC, A TCC Materials Company • March 2016 • Version 4.0

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 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.

Specifications

ASTM C387 "Standard Specification for Packaged, Dry, Combined Materials for Mortar and Concrete" for normal weight concrete.

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

ADVANTAGES

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

AVAILABLE SIZE

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

COVERAGE

1 lb. will yield 1 sq. ft. at ¼ in. thickness (0.09m² per 0.45 kg at 3 mm)

PREPARATION

Read all directions before starting work. Proper surface preparation is crucial to

achieving a successful application. All surfaces must be structurally sound. Remove all dirt, dust, waxes, sealers, old adhesive residue, curing compounds, oil, grease, or other foreign materials prior to application. Concrete must be at least 28 days of age and free of efflorescence and any standing water. Smooth troweled or dense concrete surfaces should be roughened to ensure proper bond adhesion. For best results, the surface should be rougher than light broom finish with a concrete surface profile (CSP) texture between CSP 4 to CSP 6 as referenced in the International Concrete Repair Institute (ICRI) Technical Guideline No 310-2. Mechanical methods such as shotblasting, scarifying, grinding, or sanding can be used to create surface texture.

MIXING

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. Add 3 qt. (2.8 L) of clean water to an empty 5 gal. (18.9 L) bucket. While operating drill mixer, slowly add the full bag of powder to water, mixing until a smooth, lump-free consistency is achieved (Figure 1). Additional water can be added if necessary to achieve a flowable consistency. Total water used should not exceed 3½ qt. (3.3 L). 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. DO NOT USE A BONDING AGENT, mix with water only.



Figure 1: Using drill mixer in bucket



WARNING: INJURIOUS TO EYES

KEEP OUT OF REACH OF CHILDREN

APPLICATION

For best results, apply when temperatures are above 50°F (10°C) within 48 hours of application or when rain is not expected within 24 hours. Pre-dampen surface to be repaired with water (no standing water, mist only) just prior to application. Use a trowel (Figure 2) or stand-up stiff-edge blade (Figure 3) to apply the mixture to desired area. To achieve a smooth finish, apply a light touch with a freshly cleaned, damp application tool. Protect new surface from use until material is completely hard and set (approximately 6 hours).

Figure 2: Applying with trowel



Figure 3: Applying with stiff-edge blade



Helpful Items:



Safety Glasses Trowel Hand Mixer Gloves Stiff Blade

Do not use over gypsum, residual adhesives, particle board, plastics, vinyl, epoxy or urethane floor coatings. Use within the temperature range of 40°-90°F (4°-32°C).

CURING

Refrain from using curing/sealing 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 freezing for a minimum of 72 hours. Protect surface from rain for 24 hours.

CLEAN UP

Use warm, soapy water for cleaning hands and tools while product is wet. Hardened material requires mechanical removal.

WARNING

Always read the product SDS and cautionary statements on product container prior to application. Wear proper protective gear as advised on the label and/or SDS. Wash hands thoroughly with warm, soapy water after handling or before eating. Do not take internally. KEEP OUT OF REACH OF CHILDREN.

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 to the Buyer for the product hereunder.

Table 1: Technical Data

Time of Setting (ASTM C191)	
Initial (hrs:min)	2:02
Final (hrs:min)	5:18
Tensile Strength (ASTM C307)	
Average PSI	257
Compressive Strength (ASTM C109)	
Age	PSI
3 day	2,120
7 day	3,000
28 day	3,500

Application of Pourable Concrete Patch

