



VINYL CEMENT PATCH

Polymer-modified, high-strength mortar for minor concrete surface repairs

1. PRODUCT NAME

Akona® Vinyl Cement Patch

2. MANUFACTURER

TCC Materials®
2025 Centre Pointe Blvd.,
Mendota Heights, MN 55120 USA
Phone: 1.651.688.9116
Web: tccmaterials.com

3. PRODUCT DESCRIPTION

Akona Vinyl Cement Patch is ideally suited for repairing concrete surfaces with minor imperfections, for example, steps, sidewalks, driveways, patios, curbs, walls, and floors. This product contains unique polymers to give it a higher bond strength than that of conventional concrete. Designed for applications from featheredge to 1/2 in. (13 mm) per application. When resurfacing large areas, use Akona Polymer-Modified Concrete Resurfacer.

Features and Benefits

- Superior bond
- Polymer-modified
- Trowelable to feather edge
- Excellent durability, interior or exterior
- Just add water, mix, and use

When/Where to Use

- Interior and exterior minor repairs
- Steps, sidewalks, patios, slabs, and driveways
- Walls or floors

4. TECHNICAL DATA

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

Typical Values • Akona Vinyl Cement Patch	
Initial Set Time	Approximately 30 minutes
Final Set Time	Approximately 60 minutes
Compressive Strength ASTM C109 (air dry)	
24 hours	> 2,000 psi (13.8 MPa)
3 days	> 4,000 psi (27.5 MPa)
28 days	> 5,000 psi (34.4 MPa)

Note: Test results obtained under controlled laboratory conditions at 72°F (22°C) and 50% relative humidity. Tested using 6 pt. (2.8 L) water per 40 lb. (18 kg) bag. Reasonable variations can occur due to atmospheric and job site conditions.

Available Sizes

- 10 lb. (4.5 kg) bag (BOM # 102633)
- 25 lb. (11 kg) bag (BOM # 102634)
- 40 lb. (18 kg) bag (BOM # 104452)

Coverage

1 sq. ft. per lb. at 1/8 in. thickness (0.09m² per 0.45 kg at 3 mm)

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. Smooth troweled or dense concrete surfaces must be mechanically roughened to ensure proper bond adhesion.
3. 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. No bonding additive is needed.
2. Mix only the amount that can be applied within the 30 minute working time.
3. Always stir the powder into the liquid and mix with a paddle mixer on a drill or mechanical batch mixer. Avoid highspeed mechanical mixing which can entrap air into the mixture. Smaller amounts can be mixed by hand (1 lb. of powder uses approximately 2.4 oz. of water).
4. Mix to a uniform, lump-free, putty-like consistency, approximately 2-3 minutes.
5. 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.

Approximate Water Requirements	
10 lb. bag	1½ pints (0.7 L) of water Do not exceed 1.5 pt. (0.7 L)
25 lb. bag	3¾ pints (1.8 L) of water Do not exceed 3.75 pt. (1.8 L)
40 lb. bag	6 pints (2.8 L) of water Do not exceed 6 pt. (2.8 L)

Application

1. Apply using a steel trowel. Surfaces must be frost free and above 40°F (4°C) and below 100°F (38°C) within 24 hours of application and 48 hours thereafter. Do not apply in direct sunlight on hot, windy days, or when rain is forecasted within 24 hours.

2. To reduce shrinkage and cracking, build up in layers of 1/2 in. (13 mm). Additional layers can be applied after 24 hours.

Vinyl Cement Patch is not intended for use as a resurfacer.

3. Clean the surface of the trowel often with water and use a "light touch" when finishing the surface. Do not over trowel. If a textured finish is desired, brush in one direction with a soft-bristled brush or broom while patch is still soft.
4. Protect the surface from use until patch is completely hard and set. On average, supports foot traffic in 1 day, wheeled traffic in 3 days depending upon humidity and temperatures.

Curing

Do not wet the surface before the materials has reached final set. Maintain a minimum of 40°F (4°C) for 48 hours after application. Product should be air-cured unless hot and/or drying winds or low humidity are present. Under such conditions, damp cure by covering the surface with wet burlap or towel overnight to retain moisture or lightly fog spray. Note, color may be affected where covering comes in contact with the Vinyl Cement Patch. Remove covering and allow to air cure.

Repair can be painted with most paints once cured for a minimum of 7 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 use more than the recommended amount of water. Overwatering may cause excessive shrinkage and cracking.
- Do not cover or fill expansion or control joints.
- Best for non-moving cracks greater than 1/8 in. and less than 1/2 in. (3-13 mm)
- Do not apply over concrete cured less than 7 days, or is frozen or contains frost.

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