



FOUNDATION COATING CEMENT

Cement-based coating to protect polystyrene insulation board and insulated concrete forms (ICF)

1. PRODUCT NAME

Akona® Foundation Coating Cement

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 Foundation Coating Cement is a specially-formulated, Portland cement-based product for coating and protecting polystyrene insulation board or insulated concrete forms (ICF) from weathering, ultraviolet rays, and general wear/impact. Foundation Coating Cement is polymer-modified and contains fibers which controls shrinkage and improves the adhesion properties of the product. It is easy to apply by masonry brush or trowel and has the superior durability of a cement-based product. It can also provide a tough, durable gray textured or stucco-like decorative finish. If desired, this product may be integrally colored with a liquid cement or mortar colorant or painted when fully cured to match existing home design.

Features and Benefits

- Easy brush-on or troweled application
- Polymer-modified for improved adhesion
- Durable cement finish coating
- Just mix with water and use

When/Where to Use

- Interior or exterior applications
- Protects exposed insulation board from damage to: UV rays or weathering and general wear or impact
- Create textured finish coat of insulation
- Use above or below grade

4. TECHNICAL DATA

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

Typical Values • Akona Foundation Coating Cement	
Initial Set Time	Approximately 10-20 minutes
Final Set Time	Approximately 1 hour
Water Requirement	4 qt. (3.8 L)
Compressive Strength ASTM C109 (air dry)	
1 day	750 psi (5.1 MPa)
7 days	2,500 psi (17.2 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.

Available Size

- 50 lb. (22.7 kg) bag (BOM # 102621)

Coverage

Each 50 lb. bag will cover approximately 120-140 sq. ft. (11-13 m²) at 1/16 in. thickness (1.5 mm).

5. INSTALLATION

Preparation

Read all directions before starting work. Remove all loose or unbound materials. Thoroughly clean all surfaces and substrates of dirt, dust, grease, paint, or other contaminants.

Insulation Board/ ICF Treatment:

- It is recommended to roughen the surface of the insulation board with a wire brush or rasp to ensure solid adhesion to the surface.
- Prior to application of product, all fastener heads or protrusions in the insulation board should be embedded into the board.

Patching:

- Use a wide-blade putty knife to apply a layer of Foundation Coating Cement over any joints or depressions. Immediately place fiberglass mesh tape into the layer of fresh mortar and embed the mesh with your wide-blade putty knife so the surface of the insulation board is as uniform as possible.
- Allow any joint treatments to harden prior to final product application.

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 25-35 minute average working time.
3. Mix one 50 lb. (22.7 kg) bag at a time in a wheel-barrow, bucket, mortar box, or mechanical mixer. When mixing with a drill, 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.
4. Add 4 qt. (3.8 L) of clean water to the mixing container. 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 sparingly to achieve proper consistency. Total water used should not exceed 5 qt. (4.7 L).
5. Mix time should be between 2-3 minutes maximum at room temperature with conditioned materials (50-80°F/10°-27°C). Over mixing or over watering may result in decreased strength and degrade the fibers. **DO NOT USE A BONDING AGENT**, mix with water only. Do not add accelerators or retarders.
6. 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. For best results, apply only to surfaces that are frost free and above 40°F (4°C) and below 100°F (38°C) within 24 hours of application and 72 hours thereafter.
2. Do not apply in direct sunlight or hot, windy days or when rain is forecasted within 24 hours.
3. Apply with a brush or trowel onto properly prepared insulation board in thin coats of approximately 1/16 in. (1.5 mm) thickness.
4. A second coat of 1/16 in. (1.5 mm) may be applied after 1 hour for additional protection on areas subjected to impact damage or to obtain a heavier, textured appearance. Any

irregularities in the surface may not be able to be corrected with a thin surface coating.

5. Protect the surface from use until mortar is completely hard and set. Foundation Coating Cement will harden to a tough, durable gray finish.

Curing

Product will harden within a few hours. Wait until the product fully cures before painting. Allow a minimum of 7 days for product to cure when temperatures are between 65°-75°F (18°-24°C) with no rain. Use a high-quality, exterior masonry grade, breathable acrylic latex paint. Prime the surface prior to applying paints.

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 add any materials other than clean potable water.
- This product is not designed for application directly over plywood, vinyl, or metal.
- Temperature and humidity may cause the set time to vary slightly. Cooler weather will slightly retard set time – hot weather will slightly accelerate set time.

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

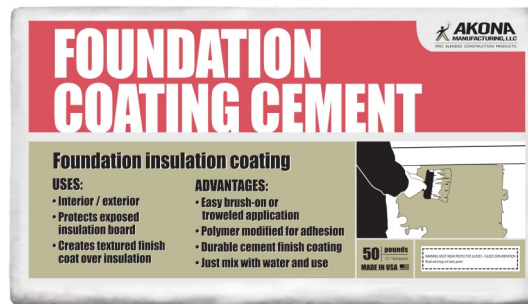
To locate Akona products in your area, please contact:

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.

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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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