AKONA®

HEAVY-DUTY WATERPROOFING BASECOAT

Portland cement-based waterproof coating for use over concrete, block, brick, or stucco

1. PRODUCT NAME

Akona® Heavy-Duty Waterproofing Base Coat

2. MANUFACTURER

Bluestone Products™, a TCC Materials® company
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Mendota Heights, MN 55120 USA
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3. PRODUCT DESCRIPTION

Akona Heavy-Duty Waterproofing Base Coat is a Portland cement-based damp-proofing coating for use over concrete, block, brick, or stucco surfaces. Use for interior or exterior coating of foundation, basement, or retaining walls above or below grade. When applied over non-uniform areas, this product provides a smooth or textured surface that can be left as a finished, decorative coating. In addition, this product can serve as a base coat for paint or similar faux finishes. **Please note that this product needs to be mixed with a mixture of water and Akona Concrete Bonding Additive** (sold separately, BOM #102659).

Features and Benefits

- Portland cement-based waterproof coating
- Applies to smooth or textured finishes
- Use as a decorative coat
- May be painted or faux finished
- Works even over non-uniform surfaces

When/Where to Use

- Interior and exterior applications
- Foundation, basement, or retaining walls
- Above or below grade
- Concrete, block, brick, or stucco

4. TECHNICAL DATA

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

Typical Values • Heavy-Duty Waterproofing Base Coat when mixed with Concrete Bonding Additive (1:3)	
Brushable Consistency	
Initial Set Time	Approximately 10-20 minutes
Final Set Time	Approximately 2-4 hours
Water Requirement	1 gal. (3.8 L) Do not exceed 1½ gal. (5.7 L)
Water Content	32%
Unit Weight	125 lb/ft^3 (2002 kg/m^3)
Compressive Strength ASTM C109	
24 hours	1,500 psi (10.3 MPa)
7 days	4,000 psi (27.6 MPa)
28 days	5,000 psi (34.5 MPa)
Flexural Strength ASTM C348	
24 hours	450 psi (3.1 MPa)
7 days	550 psi (3.8 MPa)
28 days	1,000 psi (6.9 MPa)

Trowelable Consistency	
Initial Set Time	Approximately 20 minutes
Final Set Time	Approximately 2-4 hours
Water Requirement	1 gal. (3.8 L) Do not exceed 1½ gal. (5.7 L)
Water Content	27%
Unit Weight	130 lb/ft^3 (2082 kg/m^3)
Compressive Strength ASTM C109	
24 hours	3,000 psi (20.7 MPa)
7 days	6,000 psi (41.4 MPa)
28 days	8,000 psi (55.2 MPa)
Flexural Strength ASTM C348	
24 hours	550 psi (3.8 MPa)
7 days	650 psi (4.5 MPa)
28 days	1,200 psi (8.3 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 C348 Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars.
- Two coats of Heavy-Duty Waterproofing Base Coat with Akona Concrete Bonding Additive mixed according to Akona recommendations, complies with the damp-proofing requirements for acrylic-modified cement based coatings as listed in ICC-1805.2.2.

Available Size

- 50 lb. (22.7 kg) bag (BOM # 102624)

Coverage

Each 50 lb. bag will cover approximately 45-55 sq. ft. (4.2-5.1 m^2) at ⅛ in. (3 mm) thickness

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 paint, dirt, dust, grease, or other contaminants before patching, topping, or placing overlays. Do not apply to painted, sealed, or waxed surfaces - these contaminants must be mechanically removed to ensure proper adhesion to the substrate as chemical removal drives the contamination into the surface.
2. For patching or filling any holes or cracks, use Akona Repair Products prior to application of Heavy-Duty Waterproofing Base Coat and allow curing as recommended for the product.
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

Liquid mixture for normal applications:
Mix 1 part of Akona Concrete Bonding Additive to 3 parts of clean water (by volume).

Liquid mixture for non-porous surfaces or on hot, windy days:
Mix 1 part Akona Concrete Bonding Additive to 1 part water (by volume).

1. Use cool, potable water, clean tools and clean containers.
2. Mix in a wheel-barrow, bucket, mortar box, or mechanical mixer. Avoid high-speed mechanical mixing which can entrap air into the mixture. When mixing with a drill, use a ½ in. (1.3 cm) drill rated at 300-450 rpm with a square mortar paddle attachment.
3. Add 1 gal. (3.8 L) of the **liquid mixture** to the mixing container. Always add powder into liquid to avoid lumps. Mix product thoroughly to achieve a smooth, uniform, lump-free consistency, approximately 2-3 minutes.
4. **Let product stand for five minutes, remix, if necessary add mixing liquid sparingly to bring to a suitable consistency.** Total liquid should not exceed 1½ gal. (5.7 L). If the product becomes firm before application, re-mix to proper consistency. Do not add accelerators or retarders.
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.

Application

1. For best results, apply only to surfaces that are frost free and between 40°F-100°F (4°C-38°C) within 24 hours of application and 72 hours thereafter. Do not apply in direct sunlight on extremely hot, windy days or when rain is forecasted within 24 hours. Protect the surface from use until mortar is completely hard and set.
2. Apply mix onto surface area using a steel trowel at a thickness of approximately ⅛ in. (3 mm).
3. For limestone or other uneven foundations, use a mason's brush for application. Mix using the 1 to 1 ratio of Bonding Additive to water, and apply in two coats. Second coat should not be applied until first coat is firm and set (a minimum of approximately 2-4 hours). Dampen surface before second application. Smooth out any edges or trowel marks with a lightly, moistened sponge or sponge trowel.
4. **Application thickness should not be greater than 3/16 in. (4.8 mm) per coat.**

For water-resistant applications:
A second coat is required at a thickness of approximately ⅛ in. (3 mm). Second coat should not be applied until first coat is firm and set (approximately 2-4 hours). Dampen surface before second application. Smooth out any edges or trowel marks with a lightly moistened sponge or sponge trowel.

Curing

Product will harden within a few hours. Wait a minimum of 7 days before painting for product to fully cure when temperatures are between 65°-75°F (18°-24°C) with no rain (cooler temperatures will delay cure time). 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

- Mix with solution of bonding additive diluted with clean potable water only.
- This product is not approved as an exterior below-grade waterproofing coating. Check local building codes, typically an applied membrane is required.
- For decorative applications or going over uneven stone surfaces, it may be helpful to mix partial bags, since the time required for application with a mason's brush is greater than using a trowel over flat surfaces. When mixing partial bags, it is a good practice to dry-blend powder to re-blend in case of settlement during shipping.
- 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.
- 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.

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

TCC MATERIALS® SPEC BLENDED CONSTRUCTION PRODUCTS®

BLUESTONE® PRODUCTS A TCC MATERIALS® COMPANY

2025 Centre Pointe Blvd, Suite 300, Mendota Heights, MN 55120

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