



CRACK-RESISTANT SURFACE BONDING CEMENT

Specially formulated multi-use product

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PRODUCT DESCRIPTION

Akona® Crack-Resistant Surface Bonding Cement is a specially-formulated, multi-use product. It can be used to build and restore retaining walls or block walls, patch large vertical holes where non-sagging cement is a must, or repair deteriorated stucco. Because it contains special fibers it will not shrink, crack, or sag on a vertical repair. Provides additional overall strength vs. conventional concrete.

WHEN/WHERE TO USE

- Repair deteriorated concrete walls
- Patch deep vertical holes
- Restore damaged concrete, masonry, and stucco
- Bonds dry-stacked masonry walls

ADVANTAGES

- Moisture resistant
- Glass fiber reinforced for durability
- High strength
- Controls shrinkage, cracking, and sagging on vertical repairs
- Just mix with water or a bonding additive and use

AVAILABLE SIZE

- 50 lb. (22.7 kg) bag (BOM #102614)

COVERAGE

One 50 lb. bag covers approximately 50 sq. ft. at 1/8 in. (3 mm) thickness

SURFACE PREPARATION

Read all directions before starting work. Remove all loose or unsound materials. Thoroughly clean surface of dirt, dust, grease, paint or other contaminants before building or restoring walls. PRE-WET SURFACE JUST PRIOR TO APPLICATION OF PRODUCT.

MIXING

Begin with approximately 1 gal. (3.8 L) of clean, cool water per bag. Mix complete

Helpful Items:



Cleaner



Brush



Bonding Agent



Gloves



Safety Glasses



Hand Mixer



Level



Trowel

contents of the bag in a wheel-barrow, bucket, mortar box, or mechanical mixer. Mix product thoroughly to achieve a stiff, putty-like consistency. Avoid high speed mechanical mixing which can entrap air into the mixture. If the product becomes firm before application, re-mix to proper consistency. If required, add additional water sparingly, up to a total of 1 1/2 gal. (5.7 L) liquid per 50 lb. (22.7 kg) powder.

Optional: For improved durability, strength, and adhesion when applying over previously coated and non-porous surfaces it is recommended to use Akona Concrete Bonding Additive in place of water (sold separately). Concrete Bonding Additive may be diluted by up to 1/3 with water, however, for extra difficult restoration or waterproofing projects, it is recommended to be used at full strength.

APPLICATION

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. Dampen the wall surface prior to applying product with a water spray. If the wall becomes dry before application of product, re-wet the wall. The dampened walls are important in establishing a strong bond.



Patching or Filling Holes in Concrete/ Masonry Walls & Stucco Repair:

Crack-Resistant Surface Bonding Cement is ideally suited for patching or filling holes in concrete or masonry walls, as well as, repairing cracks or filling openings in stucco walls. Apply up to 1/2 in. (1.3 cm) thickness per layer. Deep repairs may require applying product in multiple lifts or layers after initial set between lifts (approximately 2-4 hours), product should be firm, but not final set. Make sure to dampen the surface area between applications of product. When troweling, be sure to clean the surface of the trowel



WARNING: INJURIOUS TO EYES

KEEP OUT OF REACH OF CHILDREN

often with water and use a "light touch" when finishing the surface. Do not over trowel. Protect the surface from use until patch is completely hard and set. Clean up with soap and warm water as soon as application is completed.

Bonding Dry-Stack Segmental Retaining Walls & Masonry Walls:

- **Footings or Foundations:** The secret to sound structure is a strong, level foundation. A level and properly aligned footing makes stacking and troweling much easier. Footings must be built below the frost line and should be a minimum of twice the thickness of the blocks used. Consult your local masonry supplier for information about footings and slab construction.
- **Dry-stacking Masonry Units:** Lay the first course of masonry units in a full bed of Crack-Resistant Surface Bonding Cement. Make sure this course is straight and level. Dry-stack masonry units in a staggered or running bond pattern for strength. As you place masonry units in position, slide it against the masonry units below to smooth out any roughness. Crack-Resistant Surface Bonding Cement can be used between masonry units to maintain a level and properly aligned wall. The better you are in maintaining a level and aligned wall, the stronger and more attractive your finished wall will be. Dry-stack the rest of the wall before applying the Crack-Resistant Surface Bonding Cement to both sides of the wall. Apply product with a trowel in upward strokes, maintaining a uniform thickness of at least 1/8 in. (3 mm). Do not over-trowel.



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CURING

Like other cement based materials, Crack-Resistant Surface Bonding Cement gets most of its strength within 24 hours after application. It is imperative to keep the new surface area damp for at least 2 days. Wetting the walls once or twice daily with a fine mist will ensure proper curing for strength. Hot, windy or dry conditions may require more frequent wetting. Wet curing may be minimized when using Concrete Bonding Additive.

CLEAN UP

Typically water will satisfactorily clean tools immediately after using this product. If the material has begun to harden, warm soapy water may be helpful for cleaning hands and tools. Dried material requires mechanical removal.

IMPORTANT NOTES

- When applying over previously coated and non-porous surfaces it is recommended to use a dilution of 2 parts Akona Concrete Bonding Additive and to 1 part water.
- For extra difficult restoration and waterproofing projects, Akona Concrete Bonding Additive is recommended to be used full strength in place of water.
- When additional layers are needed to build-up product, apply second coat after initial set of first coat, while product is still partially damp and plastic (approximately 2-4 hours).
- Rubber gloves and goggles are recommended safety equipment.
- Mix with clean potable water or a liquid bonding additive.
- Use only clean mixing container and tools.
- Store in tightly closed container off the floor in a dry place.

Proper application and installation of all AKONA products are the responsibility of the end user.

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 and billable to the Buyer for the product hereunder.

ENVIRONMENTAL ADVISORY

Uncured or crushed cured cement is an environmental hazard, which may adversely affect fish and wildlife. Dispose of construction debris containing cement, including empty bags, at a permitted municipal disposal firm. Do not use crushed concrete as a fill near an aquatic habitat.