



Ultra-Set[®] Advanced

Waterproofing, Sound Reducing and Crack Isolation

**Waterproofing/
crack/sound isolation
membrane and setting
adhesive**

Bridges cracks up to 1/8"

Low Odor Formula

**Interior and exterior use,
horizontal and vertical
installations**

**Contains Bostik's
Blockade™ Antimicrobial
Protection**

Description

Bostik[®] Ultra-Set[®] Advanced is a tenacious, one-part, trowel applied, elastomeric waterproofing/crack/sound isolation membrane and setting adhesive. Use Ultra-Set Advanced as a waterproofing, crack, and sound isolation membrane over properly prepared concrete; structurally-sound, exterior grade plywood (interior/dry use only); cementitious backer board; and existing, well-bonded vinyl/VCT or ceramic tile; prior to the installation of ceramic or stone tile. Ultra-Set Advanced may be used with gypsum based underlayments in dry, above grade installations with minimum compressive strengths of 2,000 psi. Follow applicable TCNA specifications for installation of tile over poured gypsum underlayments. Use Ultra-Set Advanced as a setting adhesive for ceramic or stone tiles over properly prepared concrete; structurally-sound, exterior grade plywood (interior/dry use only); cementitious backer board and existing, well-bonded vinyl/VCT or ceramic tile.

Ultra-Set Advanced contains Bostik BLOCKADE™ antimicrobial protection, which inhibits the growth of bacteria, mold or mildew on the surface of the dried membrane; the dried membrane resists stains caused by mold.

Ultra-Set Advanced was independently tested in a controlled laboratory environment to measure the IIC (Impact Insulation Class) according to ASTM E492-04 and E989-89 and STC (Sound Transmission Class) according to ASTM E90-04 and E413-04 installed over 6 inch (152 mm) Concrete Slab Floor-Ceiling Assembly with Suspended 5/8" Gypsum Board Ceiling with Quarry Tile on Bostik Ultra-Set Advanced Membrane.

6-inch Concrete Floor-Ceiling Assembly with 5/8" Gypsum Board Ceiling, Quarry Tile on Bostik Ultra-Set Advanced Membrane.

Impact Insulation Class IIC = 70dB

Sound Transmission Class STC = 74dB

Increase in Impact Insulation Class Δ IIC = 7 dB

6-inch (152 mm) Concrete Floor-no Gypsum Board Ceiling, Quarry Tile on Bostik Ultra-Set Advanced Membrane.

Impact Insulation Class IIC = 33dB

Sound Transmission Class STC = 54dB

Increase in Impact Insulation Class Δ IIC = 7dB



Typical Physical Properties

VOC Compliant	134 grams/liter
Color	White
Weight	14.1 lbs. / gallon
Hardness	45 Shore A Type
Flash Point	145°F
Modulus at Break	180 psi
Elongation	600%
Cure Time	6 to 9 hours
Service Temperature:	
- Normal Use	-20°F to 140°F
- Continuous Emersion	120°F maximum
Flame Spread Index	5

Installation

Read and understand data sheet completely before beginning installation. Follow applicable ANSI, TCNA and NTCA installation standards.

Surface Preparation

Surface must be clean, dry and smooth; free of voids, projections, loose materials, oil, grease, sealers, curing compounds, waxes and all other surface contaminants that may inhibit proper bond.

Prior to application of membrane: All cracks (1/8" or less), coves, corners, drains, pipes, etc. should be treated by applying Ultra-Set Advanced with the notched-side of a 3/16" x 5/32" V-Notch Trowel. Immediately embed a 2" wide fiberglass mesh tape into the fresh material with the flat side of the trowel to achieve a flat, reinforced, uniformly thick membrane (30-mil. minimum). A minimum 6" wide coat should be applied to both sides of the joint, crack, or intersection.

All cracks greater than 1/8" should be treated, by inserting a backer rod, bond breaker tape or, fill the crack/joint with Ultra-Set Advanced or Chem-Calk® 900 urethane sealant. Apply Ultra-Set Advanced with the notched-side of a 3/16" x 5/32" V-Notch Trowel. Immediately embed a 2" wide fiberglass tape into the fresh material with the flat side of the trowel to achieve a flat, uniformly thick membrane (30-mil. minimum). A minimum 6" wide coat should be applied to both sides of the joint/crack.

Application

For waterproofing, noise reduction, and crack isolation: Apply Ultra-Set Advanced using the notched side of a 3/16" x 5/32" V-Notch Trowel, immediately smooth material with flat side of trowel to achieve a flat, uniformly thick membrane with a minimum wet thickness of 30-mil (thickness of a drivers license).

As an anti-fracture/crack isolation membrane: Apply Ultra-Set Advanced using the notched side of a 3/16" x 5/32" V-Notch Trowel. Immediately smooth material with flat side of trowel to achieve a flat, uniformly thick membrane with a minimum wet thickness of 30-mil (thickness of a drivers license). The membrane should be applied to both sides of the crack/joint a minimum of the width of the tile being installed (i.e. a 12" tile should have a minimum 24" wide membrane).

As a setting adhesive: Due to its tremendous diversity, apply Ultra-Set Advanced according to Bostik's current published literature, or consult Bostik's Technical Service Department for application instructions.

Coverage

50 square feet per gallon.

Clean-Up

Clean all tools and equipment with Bostik's Ultimate Urethane Adhesive Remover, or mineral spirits before material cures. Cured urethane is difficult to remove. For cured material, use Bostik's Ultimate Urethane Adhesive Remover Towels or Liquid.

Curing

Keep all traffic off the installation until material cures (approximately 6-12 hours). Set times are dependent upon temperature and humidity.

Tile Installation

Install ceramic tile or stone with Bostik® Reflex, Big Tile & Stone, Single Flex, Single Flex FS, PM Thin Set; and Tile-Mate Premium or TileMate Floor & Wall mixed with Bostik® 425 Multipurpose Acrylic Latex Admixture or 447 Flex-A-Lastic; EzPoxy™ 100% Solids Epoxy, Bostik® 1900 Epoxy Modified Grout & Mortar Admixture or any Bostik ceramic tile mastic.

Follow applicable ANSI, TCNA & NTCA installation standards.

Limitations

- Ultra-Set Advanced is not designed to be a wear surface. • It must be covered with approved flooring materials using approved application methods.
- Ultra-Set Advanced is a "positive" waterproofing membrane only. Do not use where hydrostatic/negative water pressure can occur.
- Ultra-Set Advanced is not intended to reduce sub-floor moisture or moisture vapor transmission.
- Ultra-Set Advanced is not designed for use in joints/cracks with dynamic movement (i.e. expansion, isolation, or construction joints).
- As a waterproofing/anti-fracture/sound reduction membrane Ultra-Set Advanced is designed for movement of 1/8", or less.
- If Ultra-Set Advanced is exposed to excessive moisture while curing, membrane may exhibit bubbles or pinholes.
- When used as a waterproofing membrane, fill any pinholes or voids with a second coat of Ultra-Set Advanced. If pinholes are excessive, cut-out affected area and replace with fresh material.
- Do not apply over surfaces below 50°F.
- Total thickness of material should not exceed 60-mils (3/32").
- Do not install over wet, contaminated or friable substrates.
- Do not use to bridge expansion joints.
- Do not use over cushion backed or perimeter bonded sheet vinyl flooring.
- Do not use beneath Vinyl or VCT flooring.
- Do not apply over oriented strand board, particle board, masonite, luaun, or similar unstable substrates.
- Due to the limitations of plywood as a substrate, Ultra-Set Advanced is not intended for use on plywood in exterior, wet interior, or applications subject to heavy/commercial traffic.

Packaging

Ultra-Set Advanced is available in 5 gallon pails and 16 per case of 30 oz. sausages.

Test Results

ANSI A118.10

(bonded waterproof membrane below thin set, tile and dimension stone installations)

4.1 Fungus Micro Organism	Resists	Pass
4.2 Seam Strength	8 lbs per inch	> 8 lb
4.3 Break Strength	170 psi	194 psi
4.4 Dimensional Stability	---	Pass
4.5 ASTM D9068 Waterproofness	---	Pass

**Waterproofing/Anti-fracture Membrane
Ceramic Tile Floors**

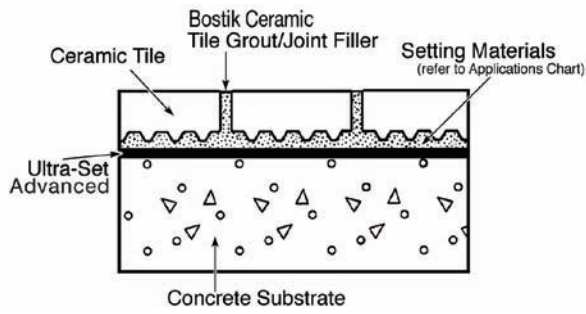


Figure 1

**Waterproofing/Anti-fracture Membrane
Ceramic Tile Floors**

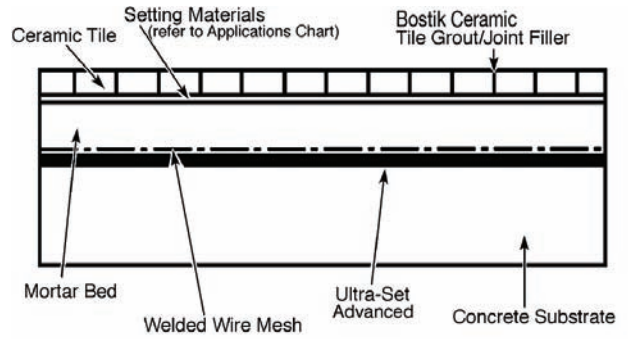


Figure 2

**Shower Drain Detail
With Sand/Cement Pre-Float**

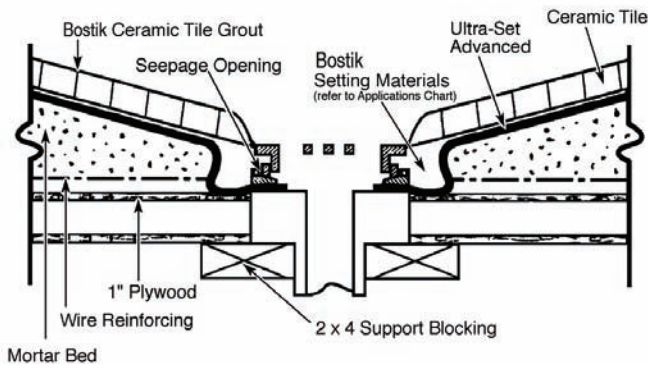


Figure 3

Bathtub Walls

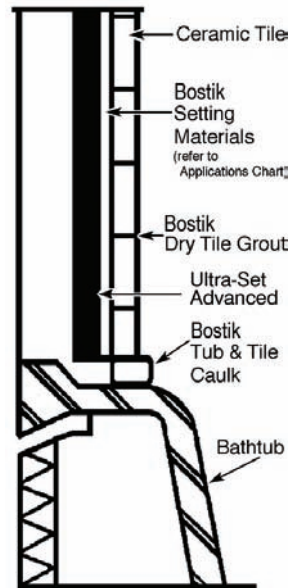


Figure 4

Shower Stall Wall

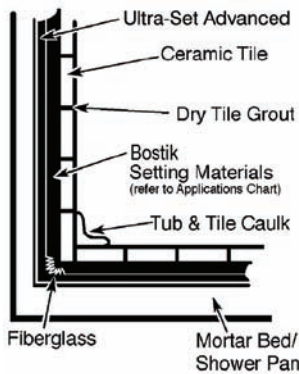


Figure 5

**Interior Control Joint
Treatment**

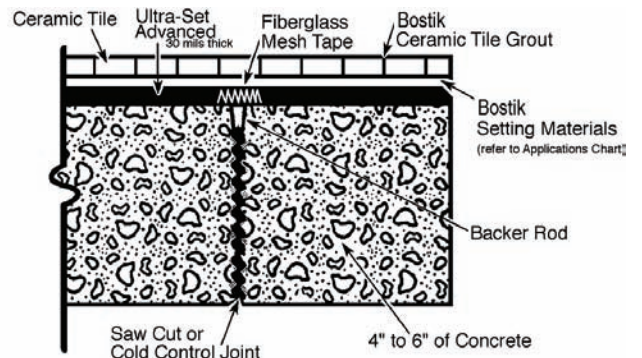


Figure 6

Expansion Joint Treatment

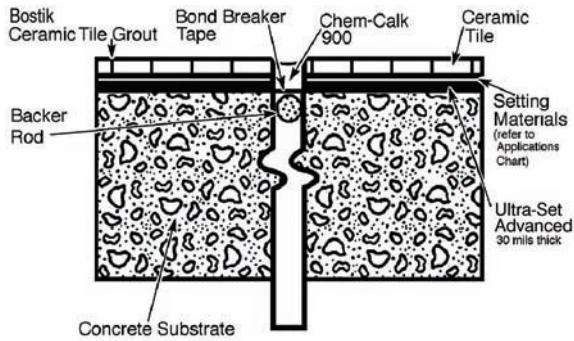


Figure 7

Treatment of Isolation Joints (columns, pillars, walls, etc.)

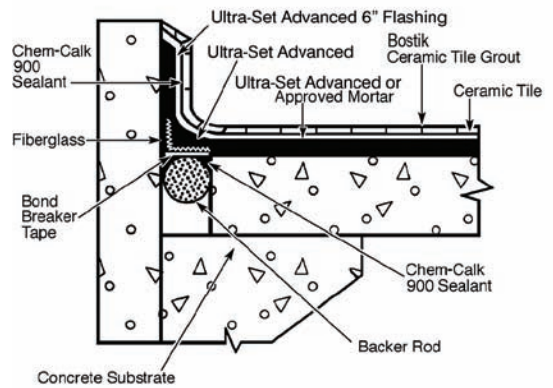


Figure 8

Treatment of Metal Penetration (pipe, vent, etc.)

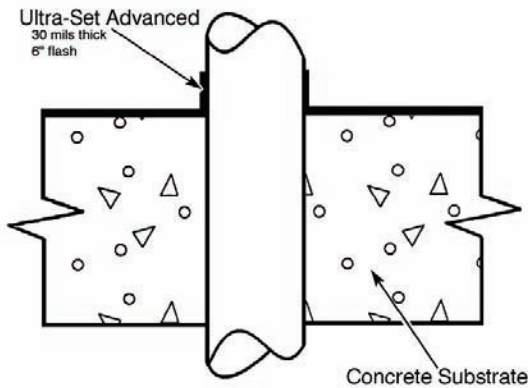


Figure 10

Interior Crack Treatment Less Than 1/8"

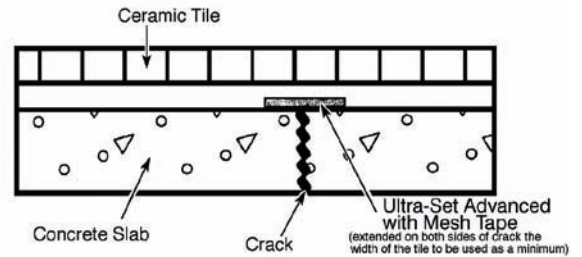


Figure 11

WARNING: Harmful if swallowed. May cause allergic skin reaction. May cause eye, skin and respiratory tract irritation. Inhaling vapors harmful.

PRECAUTIONS: Avoid contact with skin and eyes. Wash thoroughly after handling. Use this product with adequate ventilation. Store in a clean, dry area. Keep containers closed.

FIRST AID: Rinse immediately with plenty of water and seek medical advice. For skin contact flush with large amounts of water while removing contaminated clothing. Move to fresh air. Give artificial respiration if not breathing. If symptoms persist, get medical attention.

FIRE: Dry chemical, foam, carbon dioxide.

KEEP OUT OF THE REACH OF CHILDREN.
SEE MATERIAL SAFETY DATA SHEET.

Limited Warranty

The Limited Warranty for this product can be obtained at www.bostik-us.com/resource-center/warranties or by calling 1-800-726-7845 (choose option 2, then option 2 again). TO THE MAXIMUM EXTENT ALLOWED BY LAW, BOSTIK DISCLAIMS ALL OTHER EXPRESS OR IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, AND LIABILITY FOR DIRECT, INCIDENTAL, CONSEQUENTIAL, OR SPECIAL DAMAGES. UNLESS OTHERWISE STATED IN

THE LIMITED WARRANTY, THE SOLE REMEDY FOR BREACH OF WARRANTY IS REPLACEMENT OF THE PRODUCT OR REFUND OF THE BUYER'S PURCHASE PRICE. It is the buyer's obligation to test the suitability of the product for an intended use prior to using it. Any claim for a defective product must be filed within 30 days of discovery of a problem, and must be submitted with written proof of purchase.

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