

CRACK REPAIR SYSTEM Concrete Restoration



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Overview

The MULTICOAT SPEED BOND CRACK REPAIR SYSTEM is a unique two component water based polyurethane material. SPEED BOND is used to repair cracks, holes, and depressions prior to the application of various Multicoat Systems. SPEED BOND is a two-part material packaged in a standard caulking tube which does not require any special tools.

Surface Preparation

Surface must be completely dry and thoroughly clean of any foreign material that may interfere with bonding. Cracks larger than 1/16" in width must be opened with a crack chaser to a minimum of 1/4" in width. Once opened, all cracks must be cleaned by sand-blasting, waterblasting or water sandblasting. Depth of crack and surface area around crack must be completely dry and thoroughly clean. Apply Vapor Shield using a pump sprayer. Mist surface with water, then Vapor Shield immediately after. Repeat those two steps in a cross hatched pattern and finish the progression with another mist of water. If areas of the surface are "ponding" broom around the excess until all the material is saturated into the surface.

Multicoat's Vapor Shield should be applied as per instructions sheets.

Application

Step 1: Prepare Cartridge: Unscrew round collet, pull cap from center of tube and set both to the side for later use. Screw enclosed mixing tip onto tube insuring snug fit.

Step 2: Initial Dispense: Prior to filling crack, insure material is flowing through mixing tip uniformly and easily. Dispense onto discarded cardboard as a test.

Step 3: Begin filling crack to a slightly over filled capacity, then immediately press SPEED BOND into crack and spread material level and flat onto adjacent sides of crack by using a margin trowel or putty knife. While SPEED BOND is wet, broadcast #16-20 silica sand generously over the wet SPEED BOND and allow to set until dry. Once dry, brush away sand that has not stuck to the SPEED BOND. The crack is now ready to be over-coated. Speed Bond is self leveling, and large cracks that are completely open should be dammed closed to prevent the SPEED BOND from leaking out the bottom.

Step 4: MULTICOAT KRETE KOTE and TOP COAT 2000 are furnished in 65 lb. bags and field mixed with potable (clean) water in the approximate amount of 1¾-2 gallons per bag, preferably with a special MULTICOAT Mixing Paddle. Mix vigorously to disperse all lumps and to thoroughly wet all particles. Suggest 1-1½ minutes after all dry material added. Use margin trowel to clear vessel sides. Adjust to desired consistency by addition of dry material or small amount of water. For best results let Krete Kote or Top Coat stand in bucket for 3-5 minutes, then add a small amount of water and rebreak material. This will give additional pot life.

Step 5: Mixed KRETE KOTE and TOP COAT 2000 are applied by roller, trowel, or squeegee in one coat plus texture coat, or two or more coats plus texture coat, depending on surface condition.

Step 6: With Hopper Gun - Trowel Knock Down to achieve French Lace Texture. (Knock Down Texture)

Step 7: ACRATHANE COLORSEAL must be applied in two thin coats. First Coat - Mix Colorseal to uniformity with slow speed mixer. With continuous mixing, add clean water in ratio of 1 part water to 3 parts Colorseal. APPLY DILUTED COLORSEAL WITH ½" TO ¾" nap roller, using firm pressure. Allow a minimum of (1) hour to dry.

(Note: Multicoat clear sealers are applied in one or two coats full strength. DO NOT DILUTE.)

Step 8: Second Coat - DO NOT DILUTE COLORSEAL! Mix to uniformity only. Apply with firm pressure. DO NOT APPLY THICKER THAN RECOMMENDED! Airless sprayer may be used for final coat. Allow to cure for a minimum of 24-48 hours before commencing foot traffic, 72 hours for vehicular traffic.

Quick Reference Guide

STEP	MATERIAL	PURPOSE	COVERAGE
1	Vapor Shield	Vapor Barrier	75-150 SqFt/Gallon ²
2	Speed Bond	Crack Repair	18-22 LnFt/Tube
4	Krete Kote/Top Coat	Decorative Coating	125 SqFt/Bag ²
5	Acrathane Colorseal	Paint/Sealer	150-200 SqFt/Gallon ²

The diagram illustrates the application process for the crack repair system. It shows a cross-section of a concrete surface with a crack. Step 1 shows the crack being prepared. Step 2 shows the application of Speed Bond into the crack. Step 3 shows the application of Krete Kote/Top Coat over the crack. Step 4 shows the application of Acrathane Colorseal over the entire surface.

CRACK REPAIR SYSTEM

Coverage

- One tube will yield approximately 18-22 linear feet (depending on width and depth of crack), applied at a rate of 3/16" wide by 3/16" deep.
- **Each** 65 lb. of KRETE KOTE or TOP COAT 2000 as described under "APPLICATION," will cover approximately 125-150 sq. ft. depending on surface conditions (2 coats) or 65 sq.ft. (3 coats).
- **Each** gallon of ACRATHANE COLORSEAL will cover approximately 150-200 sq. ft. per gallon, depending on surface texture and/porosity.
(See ACRATHANE COLORSEAL Instructions for use).

Limitations

- **DO NOT** apply if substrate temperature is below 40°F or above 100°F, or if ambient temperature is below 40°F or above 100°F.
- **DO NOT** apply if precipitation is expected within a twenty four (24) hour period.
- Speed bond will set quickly, **DO NOT** interrupt work.

Packaging And Storage

- Each sleeve contains one 8.6 ounce cartridge and one mixing tip.
- Store in a dry place at 60 to 85 deg F.
- Shelf life is approximately 16 months.
- Reuse: Partially used tubes can be stored and re-used. Remove the used mixing tip and discard as they can not be re-used. Attempting to re-use a used mixing tip will damage the tube and render it useless. After used tip has been removed, wipe excess material from end of cartridge, re-install the cap and collet.

Damage Limitation

Seller shall not be liable for any damages, injury, loss, direct or consequential, resulting from its products. The parties intend that the limitation of damages, including consequential damages, applies even if the exclusive remedy provided for herein fails of its essential purpose.

Exclusive Remedy

Seller's sole obligation, and buyer's exclusive remedy shall be to replace material if found to be defective.

Warranty Disclaimer

There are no warranties which extend beyond the description of the fact hereof. Seller expressly disclaims all other warranties regarding the use of its products, whether expressed or implied, including the implied warranties of merchantability and for fitness of a particular purpose. Since use of the product is beyond the Seller's control, the Buyer assumes all risk of use.

WARRANTY

Materials are guaranteed with respect to uniformity and quality within manufacturer's specifications.



Laboratory Test Data

TEST DATA - CRACK REPAIR SYSTEM

TEST	CONDITIONS	RESULTS
1. Appearance	Mixed while Wet Grey Mixed Once Dry Grey	
2. Viscosity Part A	25°C	8200 cps
3. Viscosity Part B	25°C	6000 cps
4. Work Life	10g 1/4" Thick @ 25°C	2 minutes
5. Tack Free Time	10g 1/4" Thick @ 25°C	10 minutes
6. Full Cure Time	10g 1/4" Thick @ 25°C	1 hour
7. Hardness	24 hr @ 25°C	70
8. Temperature Range	Continues	-60°F (-51°C) to 250°F (121°C)

West Coast

Toll Free Phone (877) 685-8426
Phone (949) 888-7100
Fax (949) 888-2555
E-mail info@multicoat.com



www.multicoat.com

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Toll Free Phone (800) 660-6729
Phone (304) 937-2101
Fax (304) 937-2109
E-mail info@multicoat.com