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(Supersedes April 2016)

SPECTRUM RE-KOTE BF

Concrete Repair Mortar and Resurfacer

DESCRIPTION

SPECTRUM RE-KOTE BF is a single-component, polymer-modified, rapid-hardening, cementitious concrete repair mortar designed for the renovation and resurfacing of deteriorated concrete surfaces. SPECTRUM RE-KOTE BF contains a migrating corrosion inhibitor.

SPECTRUM RE-KOTE BF (broom texture finish) is suitable from featheredge to 1/2" (12.7 mm) in depth as a cementitious resurfacer for concrete.

SPECTRUM RE-KOTE BF is also a premium-grade repair mortar designed to renovate and repair concrete from featheredge to 2" (50.8 mm) in depth depending on aggregate extension. The product is also suitable for vertical and overhead repairs.

USES

SPECTRUM RE-KOTE BF is easy to use, versatile, and produces a horizontal repaired surface suitable for rubber-wheeled traffic.

For overhead or vertical use, SPECTRUM RE-KOTE BF is an ideal choice for smoothing rough surfaces, repairing honeycombs, and dressing up bug holes. When mixed, the product's creamy consistency provides an excellent skim coating for swimming pools, concrete walls, balconies, etc.

Because of its excellent bond strength, breathable properties, and freeze-thaw resistance, SPECTRUM RE-KOTE BF may be used for interior and/or exterior surfaces; below-, above- or on-grade.

FEATURES/BENEFITS

- Repairs and resurfaces.
- Contains a migrating corrosion inhibitor.
- Color-enhanced for a light gray finish.
- Polymer modified – enhanced bond.
- Specifically engineered for high abrasion resistance.
- Suitable for pedestrian traffic, soft-rubber tires, and forklifts/loaders.
- Will accept various coatings.
- May be dyed, stained, or pigmented.
- May be mechanically sanded.
- Will aid in waterproofing.
- Breathable – will not act as a vapor barrier.
- Excellent freeze-thaw characteristics – Long term exterior stability

PACKAGING

50 Lb. (22.7 kg) Pail

YIELD AND COVERAGE

Yield per 40 lb. unit is 0.40 ft.³.

Depth (Inches)	Ft. ² /Unit
1/32	160
1/16	80
1/8	40
1/4	20
1/2	10

Coverages are approximate and will vary due to substrate conditions and application methods.

SHELF LIFE

Store on pallets in a cool, dry location. Do not store outdoors. Shelf life of properly stored product is one year from date of manufacture when stored in unopened, original packaging.

CONTINUED ON REVERSE SIDE ...

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TECHNICAL DATA

The following physical properties were determined using the mix ratio of 2.25 quarts of potable water per unit at 75° F.

Set Times per ASTM C191	
Initial:	2 hours
Final:	3 hours
Compressive Strength per ASTM C109	
@1 day:	3,000 psi
@28 days:	6,500 psi
Color:	Light Gray

All technical data is typical information, but may vary due to testing methods, conditions, and operators.

APPLICATION

Surface Preparation ... Prepare concrete substrate in accordance with ICRI Technical Guideline No 310.2-1997: Specifying Concrete Surface Preparation for Sealers, Coatings, and Polymer Overlays. Apply only when temperature is 45° F and rising.

Mechanically roughen or high pressure water-jet (typically 5000 psi minimum water pressure) the existing concrete substrate to an ICRI concrete surface profile (CSP) of CSP-4 or higher. Remove all unsound concrete and provide a profiled, porous surface. The substrate must also be structurally sound, dust-free, and free of grease, oil, dirt, curing compounds, release agents, or any other surface or penetrated contaminants, coatings, or similar materials that will adversely affect the bond. Sanding or wire-brushing are not approved surface preparation methods.

Substrate must be saturated, surface dry (SSD) and free of standing water.

As a Repair Mortar ... Prime (SSD) substrate with slurry coat (2 parts powder to 1 part water). Allow slurry coat to become tacky prior to application of SPECTRUM RE-KOTE BF. Do not allow slurry coat to become tack-free. If slurry coat becomes tack-free prior to application of the bulk mix, reapply slurry coat after substrate and primer have been properly saturated to a surface dry condition.

MIXING RATIOS

Mix Ratios:

2.75 - 3 quarts per unit.

Procedures ... Using a mortar-type mixer, pour 1.75 quarts of the recommended water into a clean mixing container. Slowly add powder and mix to a desired consistency by using up to the remaining water as recommended for the application type. Always add the standard concrete liquid pigment or powdered inorganic pigment prior to adding the remaining water. This will help ensure better dispersing of the pigments, resulting in a more homogenous final appearance.

Mix for three minutes or until lump-free consistency is obtained. Do not over-mix. For small repairs, mix in a clean vessel [5 gal (18.9 L)] using a variable-speed drill with a paddle mixer at 400-600 rpm. Mix only complete bags. Do not mix more material than can be placed and finished in 30 minutes at 77° F (25° C).

Crack Detail ... Detail existing cracks, either by injecting or gravity feeding a low viscosity epoxy such as REZI-WELD LV STATE from W. R. MEADOWS, conforming to ASTM C881, Type IV, Grade 1 or 2, Class B or C. Active cracks may telegraph through SPECTRUM RE-KOTE BF.

JOINTING

Do not apply MEADOW-PATCH T2 over expansion or active joints. Tape or protect existing joint from intrusion of product. The application of MEADOW-PATCH T2 may be placed over control joints and tooled prior to final set (usually 20 minutes after application) using an edging tool to give a frame design.

As a Concrete Resurfacer ... Do not apply SPECTRUM RE-KOTE BF over expansion or active joints. Tape or protect existing joint from intrusion of product. The application of SPECTRUM RE-KOTE BF may be placed over control joints and tooled prior to final set using an edging tool to give a frame design or mechanically reinstate existing joints by saw-cutting after final set. Existing joints must be honored.

PLACEMENT

As a Concrete Resurfacer ... Apply a base-coat of the properly mixed and prepared surface either by Magic Trowel®, TexMaster Tools (www.texmaster.com), steel trowel, wood float, or hopper sprayer on to the surface, filling in the low or deteriorated areas. The purpose of the base-coat is to fill in all defects while leaving the material even with the high spots. Apply the base coat to a maximum depth of 1/2". Any defects not properly repaired or filled in will mirror through to the topcoat. Allow base-coat to dry prior to application of topcoat; typically the base-coat will dry in 2 - 6 hours depending on temperature and sun. Placement of the topcoat may proceed anytime after base-coat has dried as long as the base-coat has not been contaminated with dirt, oil, greases, paints, or any material that will hinder bonding of the topcoat or finish-coat. Remove any high spots or rough areas using a rubbing stone.

Pre-dampen the base-coat, especially on hot or sunny days to cool the surface to allow for easier application and longer open time. Apply the topcoat by Magic Trowel or hopper sprayer to a uniform, smooth surface or desired surface. A broom finish may be applied immediately following application, typically within 10 minutes of application of the topcoat. SPECTRUM RE-KOTE BF may be sanded using a resin-bonded media grit of 100 or greater. The use of successively finer resin-bonded media grit pads may be applied to achieve a desired smoothness. Do not use aggressive metal-bonded pads/discs to grind or cut the surface of SPECTRUM RE-KOTE BF.

For additional application techniques or decorative enhancements, such as stenciling, please contact W. R. MEADOWS.

As a Repair Mortar ... Applications greater than 1" (25.4 mm) must be extended with 12.5 lb. (5.68 kg) of 1/4" washed, dry pea gravel. Applications greater than 2" (50.8 mm) must be extended with 25 lb. (11.36 kg) of 3/8" washed, dry pea gravel. Maximum application depth is 4" (101.6 mm).

Apply SPECTRUM RE-KOTE BF into the repair zone substrate by compacting the material well against the properly primed and prepared substrate. Finish surface with steel or wood trowel, or sponge float. Never re-temper.

Follow these additional procedures if hot or cold weather conditions exist: Standard on Hot Weather Concreting, ACI 305; Standard on Cold Weather Concreting, ACI 306.

CURING

As a Concrete Repair Mortar ... Cure SPECTRUM RE-KOTE BF immediately following application using a suitable water-based curing compound from W. R. MEADOWS, or in accordance with ACI 308. W. R. MEADOWS recommends the 1100 or 2200-WHITE series of products for curing. (Do not use solvent-based curing compounds.)

As a Concrete Resurfacer ... Cure by using two coats of VOCOMP®-30 from W. R. MEADOWS, with the second coat applied after the first coat has fully dried.

SURFACE APPLIED COVERINGS

Allow SPECTRUM RE-KOTE BF to cure for three days at 75° F prior to application of most standard surface applied coverings coatings, such as paints or epoxy overlays. Wait 28 days prior to application of urethane overlays, unless an epoxy or suitable primer is applied prior to application of the urethane overlay or as recommended by the urethane or coating manufacturers.

Adhere to all the recommendations by manufacturer of all surface coverings systems.

PRECAUTIONS

SPECTRUM RE-KOTE BF is recommended as a concrete resurfacer and/or topping up to 1/2" in depth. Not intended to be used as a self-leveling underlayment. Do not apply above 90° F or when rain is imminent. Maintain temperature above 45° F for a minimum of three days after application. Do not bridge moving cracks. Extend existing control and expansion joints through SPECTRUM RE-KOTE BF. For large areas with no control, expansion, or construction joints, refer to American Concrete Institute (ACI) guidelines. Apply DECRA-SEAL™ W/B from W. R. MEADOWS for added protection and resistance to hot-tire pickup, especially in driveway applications. Do not add any admixtures. Avoid steel-wheeled traffic in thin applications. Thin applications subjected to high point loading should also be avoided. Exceeding water requirements shall result in reduced physical properties. Minimize water used during brooming and finishing as extra water can lead to surface bleeding and discoloration. Realize that set time will decrease as the product, air, substrate, and mixing liquid temperature increases and will be increased as the temperature decreases. Protect from conditions that may cause early water loss: high winds, low humidity, high temperature, direct sunlight. Early water loss is amplified in thin applications. When early water loss conditions exist per the above, the use of EVAPRE™ from W. R. MEADOWS is recommended. Realize that the use of extender aggregate will alter physical properties. Failure to follow industry standard practices, such as, but not limited to, ACI or International Concrete Repair Institute (ICRI) will result in decreased material performance.

HEALTH AND SAFETY

Avoid direct contact with this product, as it may cause skin and eye irritation. Utilize gloves and safety glasses to minimize direct contact. Avoid inhalation of dust. Inhalation may cause respiratory irritation and/or lung disease (silicosis). This product contains silicon dioxide, which is classified by the IARC and NTP as probably carcinogenic to humans (IARC Group 2A). The use of NIOSH-approved respiratory protection is recommended in dusty environments. Refer to Safety Data Sheet for complete health and safety information. Keep product out of reach of children.



LIMITED WARRANTY

W. R. MEADOWS, INC. warrants at the time and place we make shipment, our material will be of good quality and will conform with our published specifications in force on the date of acceptance of the order. Read complete warranty. Copy furnished upon request.

Disclaimer

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