

# VERTICOAT

## TWO-COMPONENT, TROWEL GRADE VERTICAL/OVERHEAD CONCRETE REPAIR MORTAR

### DESCRIPTION

VERTICOAT is a polymer-modified cementitious mortar for vertical/overhead concrete and masonry repairs. It sets rapidly to allow quick, easy repairs of concrete surfaces both interior and exterior. VERTICOAT is a two-component mortar designed for trowel applied repairs.

### PRIMARY APPLICATIONS

- Vertical and overhead repairing of scaled and spalled concrete
- Resurfacing of damaged concrete
- Repair of honeycombed surfaces
- Parking structures & bridges
- Retaining walls
- Ceilings and sloped surfaces
- Large placements

### FEATURES/BENEFITS

- Fast setting for rapid repairs up to 4" (10 cm)
- High compressive strengths
- Excellent resistance to freeze-thaw cycling and deicing salts
- Suitable for both interior and exterior applications
- Excellent bond to sound concrete
- Compatible with galvanic anodes
- Can contribute to LEED points

### TECHNICAL INFORMATION

#### Typical Engineering Data

The following results were developed under laboratory conditions.

**Compressive Strength** ASTM C109, 2" (50 mm) cubes

Age	Strength
1 day	4,000 psi (28 MPa)
3 days	5,000 psi (38 MPa)
7 days	6,000 psi (41 MPa)
28 days	6,500 psi (45 MPa)

**Split Tensile Strength** ASTM C496 @ 72°F (22°C)

7 days	700 psi (4.8 MPa)
28 days	800 psi (5.5 MPa)

**Volumetric Resistivity**.....6,730 ohms/cm

**Flexural Strength** ASTM C348

7 days	1,200 psi (8.3 MPa)
28 days	1,300 psi (9.0 MPa)

**Set Time** 70°F (21°C), ASTM C 191

Initial Set	approx. 25 min.
Final Set	approx. 40 min.

**Working Time** .....approx. 20 min.

**Freeze/Thaw Resistance** ASTM C666 Procedure A  
300 cycles Relative Durability Modulus..... >80%

**Appearance:** VERTICOAT is a free-flowing powder designed to be mixed with a white latex liquid (VERTICOAT LIQUID). After mixing and placing, the color may initially appear darker than the surrounding concrete. While this color will lighten up substantially as the VERTICOAT cures and dries out, the repair may always appear somewhat darker than the surrounding concrete.

### PACKAGING/YIELD

VERTICOAT is packaged in a kit containing a 54 lb (24 kg) pail of dry powder and 1gal (3.8 L) of VERTICOAT LIQUID or as a matched bag and jug unit. **Yield:** 0.48 ft<sup>3</sup> (0.014 m<sup>3</sup>) per kit.

### SHELF LIFE

2 years in original, unopened package



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## SPECIFICATIONS/COMPLIANCES

VERTICOAT attains a bond strength in compliance with ASTM C 1059-91, Type II systems.

## COVERAGE

One unit of VERTICOAT will cover approximately 23 ft<sup>2</sup> (2 m<sup>2</sup>) when placed at an average depth of 1/4" (6 mm).

## DIRECTIONS FOR USE

**Surface Preparation:** Concrete surfaces must be structurally sound, free of loose or deteriorated concrete and free of dust, dirt, paint, efflorescence, oil and all other contaminants. Mechanically abrade the surface to achieve a surface profile of at least CSP 6 - 8 in accordance with ICRI Guideline 310.2. Properly clean profiled area. **Priming:** Clean and prime exposed steel with DURALPREP AC. Concrete should be primed with a spray or brush coat of DURALPREP AC. The primer coat of DURALPREP AC must be allowed to thoroughly dry prior to the application of the VERTICOAT repair mortar. Alternately, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of VERTICOAT. The repair must be made before the scrub coat dries out.

**Mixing:** Single units may be mixed with a drill and "jiffy" type mixer. Use a paddle type mortar mixer for large jobs. NOTE: VERTICOAT HAS A WORKING TIME OF 20 MINUTES. DO NOT MIX MORE MATERIAL THAN CAN BE USED IN THAT TIME FRAME. All materials should be in the proper temperature range of 60°F (16°C) to 90°F (32°C). Add the appropriate amount of VERTICOAT LIQUID for the batch size, and then add the dry product. Mix for 2 to 3 minutes. The mixed product should be quickly transported to the repair area and placed immediately.

**Placement:** Place the VERTICOAT while the scrub coat is still wet. Trowel VERTICOAT onto the prepared surface at a minimum of 1/8" (3 mm). Trowel flush with surface and allow to stiffen. Finish to match the surrounding concrete surfaces.

**Finishing:** Finish the repair material to the desired texture. Do not add additional water to the surface during the finishing operation. Use EUCOBAR evaporation retarder.

**Curing and Sealing:** Proper curing procedures are important to ensure the durability and quality of the repair. To prevent surface cracking, cure the repair mortar with a high solids curing compound, such as SUPER AQUA-CURE VOX or SUPER DIAMOND CLEAR VOX. (NOTE: A SOLVENT BASED CURING COMPOUND SHOULD NOT BE USED ON THIS PRODUCT.) Under hot, windy or direct sunlight situations, apply a second coat of curing compound after the first has dried. If a curing compound is not desired, wet cure for a minimum of three days.

## CLEAN-UP

Clean tools and equipment with water before the material hardens.

## PRECAUTIONS/LIMITATIONS

- Do not use at temperatures below 45°F (7°C).
- Store material in a dry place, above freezing.
- Cool temperatures slow setting while warm temperatures speed up set times.
- Keep repair from freezing until a minimum strength of 1000 psi (7 MPa) is reached.
- In all cases, consult the Material Safety Data Sheet before use.

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