

RECTOP VRS

VERTICAL AND OVERHEAD STRUCTURAL REPAIR MORTAR WITH CORROSION INHIBITOR

DESCRIPTION

RECTOP VRS is a rapid-setting, two-component, polymer modified, silica fume enhanced, cementitious repair mortar for vertical/overhead applications. RECTOP VRS contains an integral corrosion inhibitor for added protection.

PRIMARY APPLICATIONS

- Structural concrete repairs
- Exterior or interior, above or below grade
- Vertical and overhead concrete and masonry repairs

FEATURES/BENEFITS

- Rapid setting, polymer modified repair mortar
- Achieves high compressive, flexural and bond strengths quickly
- Contains an integral corrosion inhibitor
- Non-sag, high build properties
- Pre-proportioned unit

TECHNICAL INFORMATION

Material Properties @ 75°F (24°C)
Compressive Strength, psi (MPa) ASTM C 109 (Mod.)
 4 hours..... 1,150 (7.9)
 1 day.4,000 (27.6)
 3 days. 6,100 (42.1)
 7 days.7,050 (48.6)
 28 days.8,500 (58.6)
Flexural Strength, psi (MPa) ASTM C 293
 1 day. 2,000 (13.8)
 28 days.2,180 (15.0)
Bond Strength, psi (MPa) ASTM C 882 (Mod.)
 7 days.2,100 (14.5)
 28 days.2,475 (17.1)

Tensile Bond Strength CAN A23.2-6b
 28 days..... greater than concrete
Splitting Tensile Strength, psi (MPa) ASTM C 496
 28 days..... 750 (5.2)
Freeze/Thaw Resistance NYSDOT 502.3P
 50 cycles..... 0.18%
Weight Loss Length Change ASTM C 157 7 days..... 0.040%
 28 days..... 0.062%
Vertical/Overhead Patching NYS DOT 701.08.passes
Chloride Permeability ASTM C 1202
 160 coulombs. "Very low"
 Typical results obtained under laboratory conditions.

PACKAGING

Part A (powder) (20 kg) bag. Part B (liquid) (5 kg) container. One kit of RECTOP VRS will yield approximately 0.4 ft³ (0.01 m³).

SHELF LIFE

1 year in original, unopened package

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. Properly clean profiled area. Priming: Concrete and exposed steel should be primed with a spray or brush. The prime surface must be thoroughly dry prior to the application of RECTOP

VRS. Alternatively, a Saturated Surface Dry (SSD) concrete surface can be primed with a scrub coat of RECTOP VRS. The repair must be made before the scrub coat dries out.

Mixing: Mix only one kit of RECTOP VRS at a time. In a clean container, add 80% of liquid Part B. Using a slow speed (400 to 600 rpm) drill and a "Jiffy" mixer, gradually add the powder (Part A) to produce a mortar with a smooth, no lumps consistency. Add remaining liquid, if necessary, to get desired consistency. Do not mix longer than 3 minutes.

Application: Air and surface temperature must be above 45°F (7°C). Apply RECTOP VRS immediately after mixing. The working time is about 15 minutes, and finish time about 20 to 30 minutes, depending on temperature, humidity and finish desired. The surface must be SSD at the time of application. Before the scrub coat dries, trowel the material against the edge, and gradually work towards the center of the repair area. Apply at a minimum thickness of 1/8 in (0.32 cm) and in lifts of no more than 2 in (5.08 cm). Each lift should be allowed to reach final set, then scored to produce a roughened surface before applying the next lift. Consolidate, screed, and then finish following standard practices.

Curing: Follow standard ACI guidelines for curing. In the case of high temperature, high wind, or low humidity causing rapid surface drying, use wet burlap/plastic or a water-based curing compound. Protect from rain and freezing temperatures before the product is sufficiently cured. DO NOT use solvent-based curing compounds.

PRECAUTIONS/LIMITATIONS

- Store at temperatures between 45°F and 90°F (7°C to 32°C), protected from moisture.
- Protect from freezing.
- Mix only one kit at a time.
- DO NOT MIX RECTOP VRS LONGER THAN 3 MINUTES.
- Do not apply RECTOP VRS below 45°F (7°C).
- Apply immediately after mixing.
- Delayed application will reduce adhesion.
- Minimum thickness 1/8" (3.2 mm), maximum per lift 2" (50.8mm).
- In all cases, consult the Safety Data Sheet before use.

COVERAGE

Applied at the following thicknesses, one bag will cover: 1/4" (6.3mm) 19.2 ft² (1.78 m²) 1/2" (12.7 mm) 9.6 ft² (0.89 m²) Coverage rates are approximate and are for estimating purposes only.

CLEAN-UP

Clean tools and equipment with water before RECTOP VRS hardens. Hardened RECTOP VRS will need to be mechanically removed from equipment.

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