

RECTOP 1004

IRON AGGREGATE EPOXY MORTAR

DESCRIPTION

RECTOP 1004 is an epoxy repair material for use where exceptional strength and durability are needed. It consists of a two-component epoxy resin system and a specially graded iron aggregate. RECTOP 1004 has excellent adhesion and provides maximum abrasion and impact resistance on floors with extra heavy-duty traffic.

PRIMARY APPLICATIONS

- Floor joint repairs and overlays
- New installations to armor floor surfaces and joints
- High impact areas in steel mills and other plants
- Floor areas subject to cutting from steel flanges
- Repairing metallic shake floors
- Areas needing superior abrasion resistance

FEATURES/BENEFITS

- The most durable mortar available for high impact and abrasive conditions
- Fast and economical repair system
- Excellent bonding to concrete
- Extremely high early strength
- Solvent free and VOC compliant
- 100% solids

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions @ 75oF (24oC)

Temperature Working Time

90oF (32oC)..... 30 min

75oF (24oC)..... 75 min

60oF (16oC)..... 90 min

Maximum Continuous Service

Temperature..... 170oF

(77oC)

Compressive Strength ASTM C 109 2" (50 mm) cubes

1 day..... 12,000 psi (83 MPa)

3 days..... 12,500 psi (86 MPa)

7 days..... 13,000 psi (90 MPa)

14 days..... 13,500 psi (93 MPa)

Bond Strength ASTM C 882.....,200 psi (15 MPa)

Abrasion Resistance ASTM C 779 Procedure A

RECTOP 1004 Plain Concrete 30 minutes:

0.008" (.20 mm) 0.048" (1.22 mm) 60

minutes: 0.013" (.33 mm) 0.102" (2.59 mm)

Appearance: RECTOP 1004 will appear as a charcoal gray metallic surface when applied over a concrete floor. It is not intended to be used as a decorative overlay.

PACKAGING

RECTOP 1004 is available in a .35 ft³ (.01 m³) kit. Part A (resin): (3.7 L), Part B (hardener): (0.95 L), Part C (aggregate): (24 kg)

SHELF LIFE

2 years in original, unopened package

SPECIFICATIONS/COMPLIANCES

ASTM C 881, Type II & IV, Grade 1 Class B & C

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.

Joints and Edges: Edges should be sawcut to 1/4" (6 mm) more than the overlay thickness and notched at the edge of the overlay to provide a locked edge. Moving joints as in the case of expansion joints should be brought up through the overlay by saw cutting or with the use of a divider strip. All cracks over 1/16" (2 mm) wide should be routed out to a 1/4" (6 mm) width and 1/4" (6 mm) depth prior to application of the mortar.

Mixing: All materials should be in the proper temperature range of 60oF to 90oF (16 °C to 32 °C). Separately mix Part A and part B individually before mixing together. Mix parts A and B (resin & hardener) for 2 minutes using a drill and mixing prop. For ease of mixing, add the Part B to the Part A (not the reverse). Slowly add Part C (iron aggregate). Mix for an additional 2 minutes or until all aggregate pieces are completely covered by the epoxy. For large placements, mix the epoxy separately in a 5-gallon pail then mix the epoxy and aggregate together in a mortar mixer. Place immediately.

Placement: For large overlays, use of vibratory screed is strongly recommended to maximize product density and ultimate performance. Finish by machine trowel. For patching, spread with a trowel, come-a-long, or square-tipped shovel to a thickness of about 1/8" (3 mm) higher than the final desired height of the overlay. Compact and finish by hand or machine trowel.

PRECAUTIONS/LIMITATIONS

- Interior use only
- RECTOP 1004 is not a decorative product and should not be used where aesthetics is an issue.
- Not recommended where floor temperature will exceed 170 °F (77 °C) on a continual basis.
- Keep at room temperature 60oF to 70oF (16 °C to 21 °C) 24 hours prior to use for ease of product placement.
- Not suitable for use where the topping will be exposed to acids.
- In all cases, consult the Safety Data Sheet before use.

COVERAGE

Thickness Coverage 1/4" (6 mm) 16.8 ft² (1.6 m²) 1/2" (13 mm) 8.4 ft² (0.8 m²)

CLEAN-UP

Clean tools and equipment with solvent such as acetone, toluene. Do not allow the epoxy to harden on tools or equipment. Hardened RECTOP 1004 will require mechanical removal.

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