REND-O-CRETE

TROWEL GRADE VERTICAL / OVERHEAD CONCRETE REPAIR MORTAR

REND-O-CRETE is a polymer modified cementitious repair mortar for vertical and overhead concrete and masonry repairs. It sets reapidly to allow quick, easy repairs or concrete surfaces both inside and outside. REND-O-CRETE is a two component mortar designed for trowel applied repairs.

PRIMARY APPLICATIONS

- Vertical and overhead patching of 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 100 mm in thickness
- Easy to use as a prepacked kit
- Excellent resistance to freeze/thaw cycling and de-icing salts
- Suitable for both interior and exterior applications
- Excellent bond to sound concrete
- High compressive strengths and bond

SPECIFICATIONS / COMPLIANCE

- **REND-O-CRETE** attains a bond strength in compliance with ASTM C 1059-86, Type II systems.

COVERAGE

One unit of **REND-O-CRETE** will cover approximately 2 m^2 when placed at an average depth of 6 mm

Note : This product requires a curing compound which must be ordered separately. Consult the curing information.

TECHNICAL INFORMATION

Typical Engineering Data

The following results were developed under laboratory conditions.

Compressive Strength

ASTM C-109 50 mm cubes

Age	Strength
1 day	4,000 psi (29 MPa)
3 days	5,000 psi (35 MPa)
7 days	6,000 psi (41 MPa)
28 days	6,500 psi (45 MPa)

Bond Strength

ASTM C-1042, at 22°C

1 day	1,120 psi (8 MPa)
7 days	1,440 psi (9 MPa)
14 days	1,760 psi (12 MPa)

Flexural Strength

ASTM C-78 (modified)

7 days	1,500 psi (10 MPa)

Working Time : 10 minutes

PACKAGING / YIELD

REND-O-CRETE supplied as a 24 kg bag of dry powder and 1 gallon (3.8 liter) of REND-O-CRETE LIQUID in a matched bag and jug unit.

Yield 0.014 m^3 per 28 kg unit.

DIRECTIONS FOR USE

Surface Preparation - New concrete must be a minimum of 3 days old. The old concrete must be clean and rough. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabbler, bushhammer, shotblast or scarifier which will give a surface profile of a minimum 3 mm and expose the coarse aggregate of the concrete. The final step in cleaning should be the complete removal of all residue with a vaccum cleaner or pressure washing.

All concrete must possess an open surface texture with all curing compounds and sealers removed.

Exposed Reinforcing Steel - Exposed rebar may be treated with an anti-corrosion coating such as EPO-CHEM or ZINCRICH PRIMER. Remove all loose rust and scaling, preferably by sandblasting to white metal prior to coating the rebar.

Bonding - After the surface has been prepared, all areas must be primed with a slurry coat of **REND-O-CRETE** or EPO-CHEM.

Slurry Coat - Mix **REND-O-CRETE** as instructed but add an additional one pint (0.5 liter) of CEMPOL SBR per unit to the mix. Brush the slurry coat on to the prepared and pre-dampened concrete. Apply the REND-O-CRETE Topping before the slurry coat has dried.

Mixing - Small quantities may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. NOTE : **REND-O-CRETE** HAS A WORKING TIME OF 10 MINUTES. DO NOT MIX MORE MATERIAL THAN CAN BE USED IN THAT TIME FRAME. Add the appropriate amount of **REND-O-CRETE** LIQUID for the batch size and then add the dry product. Mix for 2-3 minutes. The mixed product should be quickly transported to the repair area and placed immediately.

Placement - Place **REND-O-CRETE** while the bond coat is still wet. Trowel **REND-O-CRETE** material onto the prepared surface being repaired. Trowel flush with surface and allow to stiffen. Finish to match the surrounding concrete surfaces. Clean tools immediately after use with water.

Finishing- Finish the repair material to the desired texture. Do not add water to the surface during the finishing operation.

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 KUREKOTE 75 VOX (NOTE : A SOLVENT BASED CURING COMPOUND SHOULD NOT BE USED ON THIS PRODUCT.) Apply two coats of curing compound.
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 7°C.
- Store material in a dry place, above freezing.
- Cool temperatures slow setting while warm temperatures speed up set times.
- Do not traffic until the product has cured.
- Keep repair from freezing until a minimum strength of 1000 psi (7 MPa) is reached.

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