

CONPATCH

ONE PART PATCHING AND RESURFACING MATERIAL

CONPATCH is a normal setting cement based patching and resurfacing compound ready to use with the addition of only water. **CONPATCH** may be used on either vertical or horizontal surfaces, as thin as 2 mm.

PRIMARY APPLICATIONS

- Thin patching
- Resurfacing any concrete or masonry surface
- Repairing spalled concrete or masonry
- Filling cracks
- Resurfacing floor areas
- Filling honey-combed or scarred walls or columns

FEATURES / BENEFITS

- One-component, ready-to-use needs only water
- Can be used inside or outside
- Produces hard, durable patch
- Normal setting-initial set in approximately 45 minutes
- Can be featheredged down to 2 mm

PACKAGING / YIELD

CONPATCH is available in 25 kgs bags. One unit of **CONPATCH** yields 0.016 m³ per 25 kg, when mixed with 3.5 liters of water.

COVERAGE

One 25 kg bag will cover 2.5 m² @ 6 mm depth.

TECHNICAL INFORMATION

Typical Engineering Data

Compressive Strength

ASTM C-109 50 mm. cubes

1 day 16 MPa

7 days 26 MPa

28 days 31 MPa

Flow Test

ASTM C-109(five days) 80%

Appearance - **CONPATCH** is a free flowing powder as packaged. After mixing and placing, the color may initially appear darker than the surrounding concrete. While this color will lighten up substantially as the **CONPATCH** cures and dries out, the repair may always

appear somewhat darker than the surrounding concrete.

The final trowelled appearance can be any texture consistent with that expected from concrete and should be specified by the owner.

DIRECTIONS FOR USE

Surface preparation - The 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 scabblor, bushhammer, shotblast or scarifier which will give a surface profile of a minimum 1.5 mm. The final step in cleaning should be the complete removal of all residue with a vacuum cleaner or by pressure washing. Acid etching is acceptable only when mechanical preparation is impractical. It is recommended that only contractors experienced in the acid etching process use this means of surface preparation. The salts of the reaction must be thoroughly pressure washed away. Allow the concrete to completely dry.

NOTE : Even with proper procedures, an acid etched surface may not provide as strong a bond as mechanical preparation procedures.

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

Joints and Edges - Edges should be sawcut to 6 mm deeper than the topping thickness and the floor should be notched at the edge of the overlay to provide a locked in degree. Chip the edge with a hand held chipping hammer to provide the wedge shaped notch. Moving joints as in the case of expansion joints should be brought up through the overlay by sawcutting or with the use of divider strip.

Exposed Reinforcement Steel - Exposed rebar may be treated with an anti-corrosion coating such as EPOCHEM, ZINC RICH PRIMER or EPOMORT 1000 LV epoxy. Remove all loose rust and scaling, preferably by sandblasting to white metal prior to coating the rebar.

Bonding - Roughened surfaces may be primed with either epoxy primer, such as EPOMORT 1000 MV, a slurry coat of **CONPATCH** polymer bonding slurry. For sand blasted, acid etched and other minimum profile

substrate surfaces, use of an epoxy primer is strongly recommended.

Slurry Coat - Mix **CONPATCH** as instructed but add an additional 0.95 liter of water per unit to the mix. Broom the slurry coat on to the prepared concrete. Apply the **CONPATCH** topping before the slurry coat has dried.

Epoxy Primer - Use **EPOMORT 1000** adhesive for repairs.

Note: For extended working time, epoxy type bond strengths and/or corrosion protection of reinforcing steel, use **EPOCHEM** cement/epoxy compound as a bonding agent and protective coating for rebar. Follow mixing and placement instructions on the respective product technical data sheet.

Epoxy primers are sold separately.

Mixing - Small quantities of **CONPATCH** may be mixed with a drill and "jiffy" mixer. Use a paddle type mortar mixer for large jobs. Add the appropriate amount of water for the batch size and then add the dry product. Mix a minimum of 3 minutes. The mixed product should be transported to the repair area and placed immediately.

Placement - Discharge material from mixer and place. For patching, spread with trowel, come-a-long, or square tipped shovel to a thickness that matches the surrounding concrete. Finish by hand trowelling.

Finishing- Finish the repair material to the desired texture and to match the surrounding concrete. Do not add additional 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 with two coats of a high solids curing compound, such as **KUREKOTE 75 VOX**, **CEMTEC KURE N SEAL**. In hot, windy or direct sunlight situations, rewet the surface of the curing compound with water and cover with polyethylene for a minimum of three days.

Curing compound must be ordered separately. If a curing compound is not desired, wet cure for a minimum of three days.

CLEAN-UP

Tools and equipment may be cleaned with water before **CONPATCH** hardens.

PRECAUTIONS / LIMITATIONS

- Do not use calcium chloride or calcium chloride based admixtures in **CONPATCH**.

QUALITY STATEMENT

CMCI manufacture its products at their manufacturing facility in Saudi Arabia as per the Quality Procedures certified to conform with Quality Management System described in ISO 9000 series

CMCI provides a comprehensive technical support system for its full range of high performance construction products. CMCI also offers full technical field support to consultants, Architects, Contractors, applicators and End Users

The Technical Specification information and recommendation given are based on the current technical knowledge and the user or his representative is recommended to check the suitability of the product. CMCI reserves the right to amend the technical characteristic of the product as part of ongoing research and development. As the work execution is beyond the direct and continuous control of CMCI no guaranty and or responsibility is assumed on the performance of work completion executed with use of our products.