

REPCON PATCH

ONE-PART PATCHING AND REPAIR MATERIAL

REPCON PATCH is a single component, rapid setting, patching repair material for use on new and existing concrete and masonry surfaces. This product is designed for patching or reconstruction of damaged concrete or masonry; interior or exterior. Spalled or honey-combed walls, columns and foundations; cracked or broken stucco or masonry; precast concrete members, curbs, gutters and pavements may be repaired with **REPCON PATCH**.

PRIMARY APPLICATIONS

- Walls
- Pavements
- Curbs and gutters
- Precast panels
- Columns
- Masonry units

FEATURES / BENEFITS

- One component material-ready to use with only the addition of water
- Fast setting with no added chlorides or corrosive accelerators
- Designed for patches from 1.5 mm to 150-mm in depth
- Easy to use mortar which saves time, labor and excessive forming.
- Close in color to plain concrete

PACKAGING / YIELD

REPCON PATCH is packaged in 25 kg bags which yield 0.013m³ when mixed with 4.1- 4.3 liter of water.

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	2,000 psi (14 MPa)
3 days	3,500 psi (24 MPa)
7 days	4,500 psi (31 MPa)
28 days	5,500 psi (38 MPa)
Bond Strength	ASTM C-1042
28 days	1,400 psi (10 MPa)

Setting time :

Vicat Test : 30 minutes
Working Time : 20 Minutes

Co-efficient of thermal expansion :

8 to 12 x 10⁻⁶ / °C.

Density : 2220 kg/m³

COVERAGE

One 25 kg unit of **REPCON PATCH** will cover approximately 1.1m² when placed at an average depth of 13 mm.

NOTE : THIS PRODUCT REQUIRES A CURING COMPOUND WHICH MUST BE ORDERED SEPARATELY. CONSULT THE INFORMATION REGARDING CURING.

DIRECTIONS FOR USE

Surface Preparation - New concrete must be a minimum of 3 days old. 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 the proper equipment which will give a surface profile of a minimum 3 mm and expose the large aggregate of the concrete. The final step in cleaning should be the complete removal of all residue.

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

Bonding After the surface has been prepared, prime all areas with a slurry coat of either **REPCON PATCH**, or other suitable bonding agent. Place the topping on the slurry coat before it dries and cures.

Slurry Coat - Mix **REPCON PATCH** as instructed but add an additional 1 liter of water per unit. Brush the slurry coat onto the prepared and predampened concrete. Apply the **REPCON PATCH** repair mortar before the slurry coat has dried. For a stronger bond use the slurry coat or substitute 1 liter of **CEMPOL ACRYLIC** latex additive in place of 1 liter of water used in making the **REPCON PATCH** slurry.

Mixing - Small quantities 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 for 2-3 minutes. The mixed product should be quickly transported to the repair area and placed immediately.

Placement - Place **REPCON PATCH** material onto the prepared concrete or masonry surface. Float or trowel flush with adjacent surface and allow to stiffen. Finish to match the surrounding surface. Place **REPCON PATCH** while the bond coat is still wet. Clean tools immediately after use with water.

Finishing- Finish the repair material to the desired texture. 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 material with a high solids curing compound, such as **KURECOTE 75 VOX XTRA or FLOOR COAT**. Allow the curing compound to dry. In hot, windy or direct sunlight situations, apply a second coat of curing compound.

Curing compound must be ordered separately. 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

- Only mix as much material as can be used in 10-20 minutes.
- Do not use for a topping or overlay.
- Keep partially used buckets closed between use.
- For structural repairs of vertical and overhead surfaces, use **REPCON S**.
- Store product in a dry place.

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.