

CONBOND[®]

Concrete Adhesive

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Strengthening bonds...for a lifetime!



**CONTECH
CHEMICALS**

Chemists to the Building Industry

Helping you to choose the right adhesive for concrete.

CONBOND - CONCRETE ADHESIVE :

Conbond is a single component polymer based compound used for repairing eroded concrete structures. Its application on old surfaces like R.C.C., brick, ceramic tile etc provides new concrete or rendering a dependable 100% monolithic bond.

Because of its plasticity; it forms a resilient bond, which will not break under the strain caused by thermal movements. It eliminates shrinkage cracks that usually appear around the repair patches & is not affected by alkalinity of cement.



DIRECTION TO USE :

REPAIRING THE R.C.C. STRUCTURES:

Surface Preparation :

1. Remove oil, grease, paint and dust etc from the surface.
2. Rake out defective portions of concrete, exposing the reinforcement.
3. Remove the loose scale and rust from the reinforcement with a wire brush or emery paper.
4. Apply RUSTRIP rust convertor on reinforcement bars.
5. Remove traces of dust on the surface with clean water.
6. Keep the surface wet until the application of the base coat begins.

Application :

Apply 1-2 mm thick Adhesive slurry with a brush on the pre-wetted surface evenly so as to cover the base surface and reinforcement bars. Follow the application of a plastering / concrete mortar prepared as mentioned in the table before the adhesive slurry dries.

Add sufficient amount of wet part to the dry aggregate mix to prepare workable mortar.

If the plaster thickness exceeds 25 mm, it would be advisable to repair the surface with concrete mortar as mentioned in table by leaving a space of 15-mm thickness. Finish the surface with plastering mortar as mentioned in the table.



AREAS OF USAGE :

The area where Conbond scores over other conventional means of repairing is the wide scope of usage.

1. Bonding new concrete to old set concrete.
2. Repairing and strengthening eroded R.C.C. structures like slab, beam, column etc.
3. Monolithic bonding traffic topping to entirely roughcast floor, decks, ramps, pavements etc.
4. Jacketing and Grouting masonry or R.C.C. structures.
5. Repairing cracked masonry & joint between Brick masonry and R.C.C. members
6. Effective as an adhesive on non-porous surfaces like stone, woods, concrete, ceramic tiles, etc.
7. Joining concrete or masonry with wood.

Recommended proportion of Conbond for different applications

Type of Repair Work	Wet Parts By Volume		Dry Aggregate Parts By Volume			
	CONBOND	Water	Cement	Coarse Sand	Stone Chips 6 mm	Conxpan
Adhesive slurry	3	2	2			
Plastering	1	4	1	3		
Concreting	1	4	1	2	2	0.25
Crack Filling	1	2	1	2		0.25
Grouting	1	5	1			
Tile adhesive slurry	4	1	3			

REPAIRING JOINTS / CRACKS :

For repairing the cracks and joints, open out the crack/joint in a V shape to a size of 25 mm x 25 mm. Chisel out the plaster about 2" on either side of the cracks or joints. Then apply the adhesive slurry and fill up the crack with the prepared mortar mentioned in the table.

BONDING NEW CONCRETE TO OLD SET CONCRETE:

Conbond effectively bonds new concrete with old set concrete. The procedure is very simple. Mix 5 parts of Conbond with 1 part of water and add 2 parts of cement to prepare thick slurry. Apply the slurry 2 - 3 mm thick on the old surface immediately before starting the concreting work.

JACKETING :

For the best results in jacketing, the damaged columns / beams have to be repaired first using Conbond to regain its original shape keeping the surface rough.

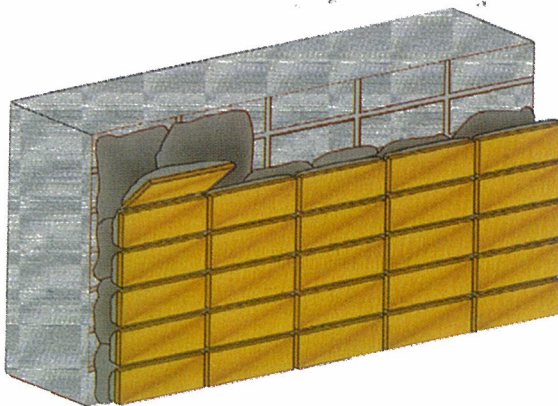
If the steel bars are required to be grouted in the old structure, we suggest the use of Conseal - Epoxy putty, to hold the bar firmly with the old structure.

Before casting the concrete all around the column / beam, apply adhesive slurry prepared as mentioned in the table on the pre-wetted surface. Immediately pour the concrete after applying the adhesive slurry.

If it is not possible to apply the above mentioned adhesive slurry coat, a 20 mm thick rough screed coat of concrete, prepared as mentioned in the table may be applied before erecting the shuttering. The routine concreting work could be carried out there after.

FIXING TILES:

Apply the tile adhesive slurry on both the surfaces as mentioned in the table and fix the tile with cement mortar.



GROUTING OF CRACKS :

Fix 12-mm GI nozzle in the cracks at the interval of 0.5 to 1.00 Mts. Seal remaining portion of cracks/joints with Conbond as mentioned in the table above. Inject a thin grout as mentioned in the table using low pressure hand operated pressure grouting pump or high pressure pump as required.

Inject pure water in the nipple if the inside surface is dry before grouting with Conbond.



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COVERAGE

In slurry coat, 1 kg of Conbond will cover approximately 4 to 5 sq. mtr of an area and as an admixture in plastering/concreting approximately 5 to 6 kgs of Conbond is required per bag of cement.

PRECAUTION

Conbond is non-toxic. However any splashes to the skin, eyes or floor could be washed off with clean water immediately.

SHELF LIFE

Conbond has shelf life of 12 months in a tightly closed container.

PACKING

Conbond is available in 1 kg. and 5 kg pail packing.

Note: Whilst the information and/or specification contained here in, are to the best of our knowledge true and accurate, no warranty is given or implied in connection with any recommendation or suggestion made by us, as we do not have any direct control over its application.



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Contech Chemicals - An entity came into existence in 1976 . This long journey of excellence has made Contech Chemicals synonymous with quality and trust!! We are a leading manufacturer of high performance, professional grade construction chemicals such as Concrete plasticizer - Super plasticizer, Retarding super plasticizer, Concrete accelerator, Waterproofing compounds and coatings, Floor hardeners and topping compound, Floor patching compound, Dust proof floor coating, Tile adhesive, Rust convertor, Anti corrosive epoxy paint, Curing compound, Epoxy floor coating, Non shrink grouts, Silicon based water repellants, Degreasing compound for oily floors, Anti efflorescence coating, Waterproof putty for wall etc. These chemicals are used in the maintenance and construction of buildings, roads, bridges and irrigation structures.