

# CHEMORT EP 3-C



## THREE COMPONENT HIGH STRENGTH EPOXY MORTAR

### DESCRIPTION:

It is three component epoxy based high strength mortar, consisting of an epoxy resin, hardener and quartz silica filler. It has excellent characteristics for repair and patch work specially for concrete structures, Honey combed concrete, crack groves, corners & edges of concrete members, finishing stones, and floor repairs & thin screed subject to traffic, or thin screed underlayment for self epoxy leveling topping.

Chemort EP 3-c is a 100% solid system, and it may be applied from thickness of 2mm to 100 mm, if greater thickness to be applied it should be applied in more than one pass.

### FEATURES:

- Structural Concrete repair mortar for RCC beams, columns, slabs & retaining walls
- It provides non- absorbent, non- dusting and chemical resistant surface.
- It cures in 1 to 2 hrs depends upon ambient temperature.
- High tensile and high compressive strength.

### PRIMARY APPLICATIONS:

- Ware Houses
- Dairies
- Service Stations
- Chemical Plants
- Metal Treating Plants
- Food Industries
- Workshops

### APPLICATIONS:

It is highly recommended for all types of residential, industrial structural concrete repair and rehabilitations works. All kinds of old and new defects in concrete like, gaps, voids or honey combed patches in concrete could be strengthen with full integrity of structure and patch work stability.

### METHOD OF APPLICATIONS:

Surface preparation: The new concrete must be minimum of 28 days old and all contamination and coatings of curing compounds should be removed. The old concrete should be clean and tough, all oil, dirt, debris, paint and unsound fragments of the substrate

must be removed throughly. Surface may be prepared mechanically, by chipping, sandblasting or wire brushing etc.

All the three components of the product may be mixed well in steps, Part A and Part B shall be mixed in ratio of 1::0.8 ratio and after mixing of Part A and Part B, part C shall be mixed gradually in ratio of 3.2 parts by weight of mixed material. In the event of change in basic resin and hardener the ratio may vary accordingly as per prevailing situation and the filler aggregate quantity may be adjusted.

The mixed material could be patched by scrapper, trowel etc. for finishing thinner or xylene solvent could be used on trowel surface to reduce resilience and stickiness with trowel for ease in finishing smooth surface.

### Typical Engineering Data

The following results were developed under Laboratory conditions.

Compressive Strength

ASTM C-109 2" (50 mm) cubes

#### Age Strength

1 day 4,000 psi (48 MPa)

3 days 5,000 psi (62 MPa)

7 days 7000 psi (69 MPa)

#### Bond Strength ASTM C-882

7 days 2,300 psi (16 MPa)

Water Absorption ASTM D-5700.19%

#### Working time over concrete

30 TO 50 minutes depending upon temperature

### PACKAGING:

Part A Resin, Part B Hardener and Part C Filler

Three components, 9 Kg, 15.6 Kg sets and 31.2 Kg sets

