

# CEMTEC R88

## MULTIPURPOSE EPOXY PUTTY



### DESCRIPTION

**CEMTEC R88** is a high strength, non-slumping, two component epoxy putty. This system is tough and resilient when compared to concrete. It has excellent properties that make it suitable to be put in several uses as a bedding system, adhesive or a repair material

### FEATURES/BENEFITS

- Forms high strength, non-slump, non-shrink, epoxy bedding system.
- Forms a stiff but easily workable compound.
- Resistant to impact and a wide range of corrosive chemicals.
- Has strong adhesion to concrete.
- Can be used for wide range of applications like bedding, grouting, crack filling and repair of surface defects in horizontal, vertical and overhead applications.

### PRIMARY APPLICATIONS

- Crack repairs in decks and concrete slabs.
- General Adhesive for various materials over concrete and steel.
- Anchoring epoxy for reinforcement steel bars and anchor bolts.
- Adhesive for injection nipples or surface packers.
- Sealing dry cracks and gaps around pipes
- Crack and pinhole repairs before epoxy coatings in tanks and concrete slabs.

### DIRECTIONS FOR USE

New concrete should have cured until the shrinkage and moisture movement is low, and possesses a porous and textured surface with all curing compounds and sealers removed. Old concrete must be clean and well textured. All oil, dirt, debris, paint and unsound concrete must be removed. The surface must be prepared mechanically using a scabler, bush hammer, shot blast or scarifier 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 residues with a vacuum cleaner or pressure washing. Acid etching is acceptable only when Mechanical preparation is impractical. It is recommended only contractors experienced in the acid etching process use this means of the surface preparation. The salts of the reaction must be thoroughly pressure washed away. Allow the concrete to dry completely.

### Note

Even with proper procedures, an acid etched surface may not provide a bond as strong as a mechanically prepared surface. Mix part A and part B (resin & hardener) for 3 minutes using a drill and mixing prop. For ease of mixing, add the part B to part A (not the reverse). The epoxy must be well mixed to ensure proper chemical reaction.

Fill routed out cracks and cut joints with **CEMTEC R88**, then apply **CEMTEC R88** over the rest of the floor. Trowel **CEMTEC R88** to the required level using the minimum of solvent on the trowel to aid workability. The surface must be finished smooth by use of a paint brush dipped in **CEMTEC SOLVENT**.

### SPECIFICATIONS/COMPLIANCES

The epoxy bedding system **CEMTEC R88** complies with ASTM C 881 Type 1, Grade 3 Classes B & C.

### TECHNICAL INFORMATION

#### Typical Engineering Data

The following information was developed under laboratory conditions.

Compressive Strength	: 55N/mm <sup>2</sup> (ASTM C-579)
Bond strength	: Greater than that of the concrete
Pot-life	: @25°C : 1 hour 30 minutes @40°C : 45 minutes
Tack free time	: @25°C : 8 hours @40°C : 2 hours 30 minutes
Full cure	: @25°C : 7 days @40°C : 3 days

### CHEMICAL RESISTANCE

Tartaric acid	10%	Excellent
Hydrochloric acid	10%	Excellent
Sodium hydroxide	10%	Excellent
Diesel fuel/petrol		Excellent
Sulphur acid	10%	Good
Sugar solutions	10%	Excellent
Lactic acid	10%	Excellent
Hydrocarbons	10%	Excellent
Phosphoric acid	10%	Good
Seawater		Excellent
Sewerage		Excellent
Mineral, vegetable animal oils & fats		Excellent
Ammonia		Excellent
Formaldehyde		Excellent
Nitric acid	10%	Good
Acetic acid	5%	Limited

<b>YIELD</b>	3 kg kits will yield approximately 1.75 liters, 50 kg kits will yield approximately 29.17 liters.
<b>PACKAGING</b>	3 kg and 50 kg kit.
<b>COLOR</b>	Available in Grey.

**CLEAN-UP** Clean all tools and equipment with **CEMTEC SOLVENT**. Do not allow material to harden on the equipment.

### **SHELF LIFE**

1 year in unopened container.

### **HEALTH & SAFETY**

- Epoxy components may cause irritation. Avoid contact with eyes and skin.
- Store under cover out of direct sunlight and protect from extremes of temperature.
- Solvents are Flammable. Keep away from heat, sparks, open flame, or lighted cigarettes. Use explosion-proof application equipment.

**TD/118/F**

#### **Quality Statement**

CMCI manufactures 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.

**"High Quality Construction Chemicals"**  
CONSTRUCTION MATERIAL CHEMICAL INDUSTRIES  
P.O. Box 7137, Dammam 31462, Saudi Arabia,  
Tel: 00966-13-8471450; Fax: 00966-13-8471575  
Email: tech@cmci-sa.com, Web: www.cmci-sa.com

The Technical Specification information and recommendations 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 warranty and or responsibility is assumed on the performance of work completion executed with use of our products.