

# CCI NEOCRETE RR 80

## Three-component High-strength Epoxy Repair Mortar for Pavement Quality Concrete

### Description

**CCI Neocrete RR 80** is a three-component, high-strength, solvent-free, fast-curing epoxy repair mortar that makes easy and permanent repairs to damaged and spalled concrete. **CCI Neocrete RR 80** consists of:

Pack A – Base, Pack B – Hardener, Pack C – Graded Filler.

### Usage

**CCI Neocrete RR 80** is typically used:

- ✓ As bonding mortar on stone, concrete, mortar, plaster work, etc.
- ✓ For vertical and overhead filling of cavities
- ✓ For horizontal concrete surfaces such as Industrial floors, kerb stones, joint arises in the highways, bridge decks and concrete runways
- ✓ For anchoring of bolts, rebar, dowel bar and pocket grouting
- ✓ For repair of spalled concrete beams, columns, panels, and piers
- ✓ For repair of reinforced concrete without adequate cover to reinforcement

### Advantages

- ✓ Ideal for the rapid repair of damaged concrete
- ✓ Solvent-free
- ✓ Suitable for both dry and damp concrete surfaces
- ✓ Very good adhesion to most construction materials
- ✓ Unique, high mechanical and structural strengths
- ✓ Good abrasion resistance
- ✓ High chemical resistance
- ✓ Excellent bearing
- ✓ Excellent mechanical and structural properties
- ✓ Excellent bond foundation to base plate
- ✓ Shrinkage compensated, and crack-free
- ✓ Provides non-brittle cured material and retains a slight flexible nature
- ✓ Stable in deep or thick sections

### Indicative Characteristics

Mixing Ratio (Pack A: B: C), by weight	02: 01: 15
Pot life, minutes, 30°C	> 30
Compressive strength, 14 days, MPa	> 70
Tensile strength, N/mm <sup>2</sup> , 14 days	15 MPa
Flexural strength, N/mm <sup>2</sup> , 14 days	20 MPa
Shrinkage	Non-shrink
Chemical resistance	Unaffected by a wide range of chemicals, oils, etc.
Water absorption, ASTM D570	Passes Test (Less than 1%)

### Method of Application Surface Preparation

The area to be treated should be properly cleaned to remove the dust, laitance, grease, fungus, etc.

### Mixing

Mix all the Component-B (Hardener) with Component-A (Resin). Leave the thoroughly mixed materials to stand for 2 to 3 minutes to enable entrapped air to escape from the mix. Add Component-C (Special Aggregate) and mix well using a drill and paddle (maximum 500 rpm.) or manually. Mix only sufficient material for immediate requirement and use as quickly as possible, within its pot life.

### Application

The product shall be spread by steel trowel to the required thickness. The entire mixed material should be placed on to the primed surface and spread slowly and evenly when the primed surface is still slightly tacky. Material shall be tamped down with a wooden/steel float to get maximum compaction after spreading of **CCI Neocrete RR 80**. While application, the substrate temperature should be at least 5°C but not above 40°C. Ensure all existing expansion joints are continued through the **CCI Neocrete RR 80**.

## Packaging

18 kg kit.

## Shelf Life & Storage

12 months from the date of manufacturing when stored in un-opened, original sealed and dry condition at a temperature range from +5°C to 40°C.

## Safety

- ✓ Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- ✓ In case eyes or mouth are affected, wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet (MSDS). The MSDS is available on [www.ccichemicals.in](http://www.ccichemicals.in) or contact us at [info@ccichemicals.in](mailto:info@ccichemicals.in).

## Precautions

- ✓ Store the material at the 5°C to 40°C temperature range in a shaded cool place and keep it away from fire and any heated body. Clean all tools with MEK or any standard solvent before polymerisation starts.
- ✓ Mix only sufficient materials for immediate requirements. Leave the mixed material to stand for 5 to 8 minutes for induction reaction followed by remixing and then use as quickly as possible.
- ✓ Do not mix large quantity at a time; this may lead to shorter pot life. Use the mixed material within 10 to 20 minutes after mixing to avoid gelling.
- ✓ Application temperature must be 3°C above the dew point but not more than 40°C.
- ✓ Do not apply it on wet surface though bond strength of slightly damp concrete surface is good.

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