

CCI NEOCRETE PMC 60

Polymer-modified Fibre-reinforced High strength Concrete Repair Mortar

Description

CCI Neocrete PMC 60 is a single component cementitious, polymer modified non-reactive selective fiber reinforced repair mortar to provide excellent properties as well as resistance to corrosion and carbonation and shrinkage cracking. **CCI Neocrete PMC 60** can be applied in thickness from 10 mm to 40 mm in vertical and 25 mm in overhead situation. It is suitable to apply by hand trowel or by special mortar spray machine.

Indicative Characteristics

Appearance	Free-flowing grey powder
Compressive strength, N/mm ² (Typical) at 27°C	(W/P = 0.15)
1 day	> 15
7 days	> 50
28 days	> 60
Coefficient of Thermal expansion, per °C	11-12 × 10 ⁻⁶ (Similar to concrete)
Flexural strength, N/mm ² (Typical) at 27°C	> 7
Bond strength, N/mm ² (Typical) at 27°C	> 2
Pot life, at 27°C, minutes	> 30
Fresh wet density, kg/m ³	2150 to 2250
Material required for 1 m ³ volume, kg	1850 to 1950

Note: Compressive strength is determined by using 7 cm cube specimen at laboratory-controlled condition. Water demand may vary depending upon site condition.

Advantages

- ✓ Controlled expansion to ensure positive surface contact.
- ✓ Chloride-free and non-metallic, hence no rusting or staining on exposed edges.
- ✓ Excellent bond to concrete and steel substrate.
- ✓ Low permeability provides maximum protection against corrosion and carbonation.
- ✓ Ready-to-use – Only the addition of water is needed at site.

Domains of Application

CCI Neocrete PMC 60 is a cementitious repair compound which is used to reinstate damaged and deteriorated concrete for structural and cosmetic repairs. This product is suitable where above average corrosion and carbonation resistance is required.

Method of Application

Surface Preparation

All surface laitance and unsound concrete must be chipped away so that a reasonably rough, but strong sound surface is provided. All surfaces must be free from oil, grease, and dust. This particularly applies to the underside of bed plates, bolts, pipes, or concrete surfaces which may have surface contact with the **CCI Neocrete PMC 60**. After cleaning, saturate the concrete surfaces with clean water.

Ensure that no free-standing water is present on surfaces of foundations or in bolt holes or on the concrete surfaces which are to be repaired / encased before applying **CCI Neocrete PMC 60**.

Mixing

For 25 kg powder pack, place about 3.5 to 4 L fresh water in the mixer and add the total quantity of powder and mix with the machine in operation for 1 to 2 minutes. Depending on the ambient temperature and the desired consistency, a small additional amount of water may be required.

Job placing conditions, including temperatures, may require mixing water adjustments as may be essential for practical purposes. Small trial batches to ascertain the best working consistency for the operation are recommended.

Application

CCI Neocrete PMC 60 shall be applied with a steel trowel on a prepared SSD concrete surface with a thickness from 10 mm to 40 mm. If the thickness is more than 40 mm, another layer shall be applied after 24 hours from the application time of the previous layer.

Curing

Curing is essential for CCI range of **CCI Neocrete PMC 60 Mortar**. Curing shall be started within 20 to 24 hours depending on climatic conditions. Curing shall be done by sprinkling water (4 to 6 times per day for 7 to 10 days) for vertical and ceiling surfaces. Good quality curing compounds can also be used where water curing is not possible.

Packaging

25 kg waterproof laminated HDPE bags.

Shelf Life & Storage

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

Precautions

This product is used for patch repair only. Do not apply large areas such as screed or plaster. If the ambient temperature is more than 40°C during the first 7 days of application, cover the applied area with wet hessian cloth for better curing and performance of the mortar. Always apply this mortar on sound surfaces.

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 or contact us at info@ccichemicals.in.

Registered Office	Regional Office	Chennai Plant	Mumbai Plant
Office No. 210 Shah Heritage Commercial CHS Plot No. 9, Sector 48, Seawood Navi Mumbai – 400 706 Maharashtra, India Mobile: +91 93247 27785 E-mail: kashinath.bera@ccichemicals.in	'LAKSHMAN MANERE' Old No. 17/2, New No. 42/2, R Block 6 th Main Road, Anna Nagar West Chennai – 600 040 Tamilnadu, India Mobile: +91 98400 73183 E-mail: durai.murugan@ccichemicals.in	No. 1, Perumal Koil Street Azhinjivakkam Sriperumpudhur Thiruvallur – 602 105 Tamilnadu, India	Plot No. A-51 Taloja Industrial Area MIDC, Taloja Navi Mumbai – 410 208 Maharashtra, India