



CCI NEOCRETE PMC 40

Polymer-modified Fibre reinforced Structural Concrete Repair Mortar

Description

CCI Neocrete PMC 40 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 40** 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=0.16)	
3 days	> 20	
7 days	> 30	
28 days	> 40	
Coefficient of Thermal	11-12 × 10 ⁻⁶	
expansion, per °C	(Similar to concrete)	
Flexural strength, N/mm ² (Typical) at 27°C	> 4	
Bond strength, N/mm ² (Typical) at 27°C	> 2	
Pot life, at 27°C, minutes	> 30	
Fresh wet density, kg/m ³	2100 to 2200	
Material required for 1 m ³ volume, kg	1800 to 1900	

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 40 is a general-purpose cementitious repair compound which is used to reinstate damaged and deteriorated concrete. 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 **CCI Neocrete PMC 40**. 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 40**.

Mixing

For 25 kg powder pack, place about 3.5 to 4.5 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 40 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 40** 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) on 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	'LAKSHMAN MANERE'	No. 1, Perumal Koil Street	Plot No. A-51
Shah Heritage Commercial CHS	Old No. 17/2, New No. 42/2, R Block	Azhinjivakkam	Taloja Industrial Area
Plot No. 9, Sector 48, Seawood	6 th Main Road, Anna Nagar West	Sriperumpudhur	MIDC, Taloja
Navi Mumbai – 400 706	Chennai – 600 040	Thiruvallur – 602 105	Navi Mumbai – 410 208
Maharashtra, India	Tamilnadu, India	Tamilnadu, India	Maharashtra, India
Mobile: +91 93247 27785	Mobile: +91 98400 73183		
E-mail: kashinath.bera@ccichemicals.in	E-mail: durai.murugan@ccichemicals.in		