

CHRYSO[®] EXCEM PMC 40

Polymer Modified Fiber Reinforced Non- Structural Concrete Repair Mortar



Description

CHRYSO EXCEM PMC40 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. CHRYSO EXCEM PMC40 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) |
| 3day | >20 |
| 7days | >30 |
| 28 days | >40 |
| Free linear Expansion, ASTM C 827 | 0.2-2% |
| Coefficient of Thermal Expansion, per °C | 11-12x10 ⁻⁶ (Similar to Concrete) |
| Flexural Strength, 28 days, N/mm ² (Typical) at 27°C | >4 |
| Bond Strength, 28 days, N/mm ² (Typical) at 27°C | >2 |
| Pot Life, at 27°C, minutes | >30 |
| Fresh Wet Density, kg/m ³ | 2100 - 2200 |
| Material required for 1m ³ Volume, kg | 1800-1900 |

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

Domains of Application

CHRYSO EXCEM PMC40 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 reasonable 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 CHRYSO EXCEM 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 to be repaired / encased before applying CHRYSO EXCEM PMC 40

Mixing

For 25 kg powder pack, place about 3.5-4.5 liters fresh water in the mixer and add the total quantity of powder and mix with the machine in operation for 1 – 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.

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our website www.chryso.com

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Application

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

Curing

Curing is very essential for CHRYSO range of **EXCEM PMC 40** Mortar. Curing shall be started within 20- 24 hours depending on climatic conditions. Curing shall be done by sprinkling of water (4-6times per day for 7-10 days) for vertical and ceiling surfaces. Good quality curing compound can also be used where water curing is not possible.

Advantages

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

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

Packing

25kg waterproof laminated HDPE bag

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. The MSDS is available on www.chryso.com

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