

ReArm CMS F

(Formerly known as MYK Crete CMS 30)

Polymer modified flowable repair mortar for Horizontal application



TECHNICAL DATA SHEET

Product Description

ReArm CMS F is based on carefully blended cement, graded fillers and chemical additives and is polymer modified to provide a mortar with good handling characteristics, while minimizing water demand. The hardened product exhibits excellent thermal compatibility with concrete and outstanding water requirement ensures fast strength gain and long-term durability. ReArm CMS F is supplied as a grey powder along with a liquid Polymer (ReArm CMS F liquid part) and has to be mixed with water on site to produce a highly consistent, high strength repair mortar/ Screed.

Uses

- For the Reinstatement of concrete in small localized patch repairs.
- ReArm CMS F is alkaline in nature and will protect embedded steel reinforcement.
- It is specially designed for location where high compressive strengths are required like Factory Floors/Internal Concrete Roads.
- The mortar is suitable where superior resistance is required to Chlorides and carbon dioxide.

Features and Benefits

- High strength
- Can be applied by hand, like conventional mortars
- Extremely low permeability provides maximum protection against carbon dioxide and chlorides
- Excellent bond to the concrete substrate
- Shrinkage compensated
- Contains no chlorides.

Application Methodology

Step no 1: Surface Preparation

The substrate should be thoroughly soaked with clean water and any excess removed prior to applying one coat of ReArm SBR 45 primer and scrubbing it well into the surface. ReArm CMS F can be applied as soon as the primer becomes tacky or 10 to 15 Minutes depending on the temperature. If steel reinforcement is exposed, then treat the reinforcement with anti-corrosive coating, before application of ReArm CMS F.

Step no 2: Product Mixing:

Care should be taken to ensure that ReArm CMS F is thoroughly mixed. A forced-action mixer is essential. Mixing in a suitable sized drum using an approved spiral paddle in a slow speed (300 rpm) heavy duty drill is acceptable for the occasional one bag mix. Free fall mixers must not be used. For normal application, use 3.25 to 3.50 liters of drinking quality water per 25 kg bag of ReArm CMS F. take water in clean container and add powder slowly mix for 3 minutes until homogeneous material results. Then add the polymer part, again mix for 2 minutes. Depending on the ambient temperature and the desired consistency, the amount of water required may vary slightly but should not exceed 3.75 liters per 25 kg bag of ReArm CMS F under any circumstances.

Step no 3: Product Application:

Exposed steel reinforcing bars should be firmly secured to avoid movement during the application process as this will affect mortar compaction, build and bond.

Apply the mixed ReArm CMS F to the prepared substrate by gloved hand or trowel. Thoroughly compact the mortar onto the primed substrate and around the exposed rein for cement. ReArm CMS F can be applied from a minimum of 8 mm to 30mm thickness in smaller pockets or with the use of form work. If form work is used it should have properly sealed faces to ensure that no water is absorbed from the repair material. In horizontal locations ReArm CMS F can be applied up to 100 mm thickness.

Note: The minimum applied thickness of ReArm CMS F is 8mm.

Finishing:

ReArm CMS F is finished by striking off with a straight edge and closing with wooden or plastic floats, or damp sponges may be used to achieve the desired surface texture. The completed surface should not be over worked.

Low Temperature Working:

In cold conditions down to 15°C, the use of warm water (up to 30°C) is advisable to accelerate strength development. Normal precautions for winter working with cementitious materials should then be adopted.

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High Temperature Working

At ambient temperatures above 35°C, the material should be stored in the shade and cold water used for mixing.

Curing:

ReArm CMS F is a cement-based mortar. In common with all cementitious materials ReArm CMS F must be cured. Large areas should be cured as trowelling progresses without waiting for completion of the entire area. In fast drying conditions, supplementary curing with polythene sheeting taped down at the edges must be used in cold conditions,

Cleaning:

Mixed material should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

Design Criteria :

ReArm CMS F is designed for use in Horizontal applications. It can be applied from a minimum of 8 mm to 30mm thickness in Horizontal sections. Higher thicknesses can be achieved by the use of formwork. Thicker sections can be built up in layers. In horizontal locations .

ReArm CMS F can be applied up to 50mm thickness. The material should not be applied at less than 8 mm thickness

Chemical Resistance:

The low permeability of ReArm CMS F mildly retards chemical attack in aggressive environment. The cured mortar is highly impermeable to acidic gases, chloride ions, oxygen and water.

Repair Mortar:

The polymer modified mortar shall be ReArm CMS F, a two component cement based blend of powder and a liquid polymer to which only the site addition of clean water shall be permitted.

Note:-

Joints: - For every Four Meters Contraction Joints to be provided to restrict the movements and cracks on the floor

Technical Data

The following results were obtained temperature at @ 30°C
Mixing ratio :-

ReArm CMS F Powder part : 25 kgs +

ReArm CMS F liquid part : 0.5 kgs +

Water: 3.25 to 3.75 Lts from site

| | |
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| Fresh wet density | Approx. 2300 kg/m ³ |
| Setting time@ 30°C (Depending on the temperature Setting time will varies.) | Initial set :- Approx.12 hrs Final set :- Approx.18 hrs |
| Compressive strength | 1 Day - 25 N/mm ² . 28 Days - 60 N/mm ² |
| Flexural strength 28 days | 8 N/mm ² |

ReArm CMS F is supplied as a grey powder along with a liquid. Polymer (ReArm CMS F liquid part) and has to be mixed with water on site to produce a highly consistent, high strength repair mortar

Limitations:

ReArm CMS F should not be used when the temperature is below 10°C and falling. The product should not be exposed to moving water during application. Exposure to heavy rainfall may result in the surface scour. The material should not be applied on large continuous areas in single application as a render. If any doubts arise concerning temperature or substrate conditions, consult MYK Arment.

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Consumption

ReArm CMS F yield Approximately 13 liters /per 25.5 kgs pack

Packaging

ReArm CMS F is available in 25.5 KGS (POWDER+ LIQUID PART)

Storage and Shelf Life

ReArm CMS F has a shelf life of 6 months if kept in a dry store in the original, unopened bags or packs. If stored at high temperature and/or high humidity conditions shelf life may be reduced.

Health & Safety

ReArm CMS F contain cement powder which when mixed or become damp, release alkalis which can be harmful to the skin. During use, avoid inhalation of dust and contact with skin and eyes. Wear suitable protective clothing, gloves, eye protection and respiratory protective equipment's. The use of barrier cream provides additional skin protection. In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. In case of contact with eyes, rinse immediately with plenty of clean.

Water and seek medical advice. If swallowed seek medical attention immediately.

Product Categories Available



Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application & purpose. MYK Arment reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.