

ReArm Crete TJM

(Formerly known as MYK Crete TJM)

Portland cement based Thixotropic Joint Mortar



TECHNICAL DATA SHEET

Product Description

ReArm Crete TJM is a Portland Cement based powder mix including special thixotropic and shrinkage compensating components. The product mix design requires a low water addition to produce a high strength mortar, designed for structural support.

ReArm Crete TJM is pump placed and will produce in situ structural fill and support. Once placed ReArm Crete TJM will stay without shuttering or pointing when pumping pressure is relieved. The thixotropic “stay” characteristic will resist hydrostatic pressure within the joints being filled. ReArm Crete TJM can be used for placing in horizontal and vertical gaps of 5mm to 100mm where a cementitious mortar infill is required and flow grouting is inappropriate. ReArm Crete TJM is pre-packaged ready for onsite mixing only requiring addition of the measured volume of water. The product may be mixed using the drill and paddle technique followed by hand or mechanical pump placement or for larger jobs mixer pumps can be used. ReArm Crete TJM is chloride free and can be safely used in contact with steel reinforcement.

Uses

- Structural support between and beneath precast concrete elements
- Permanent inset shuttering in joints between precast concrete elements which will be post grouted.
- Rapid placement using Duo-Pump systems.
- General grouting works where high strength is required but flowable grouts are not ideal

Features and Benefits

- No backer rods required in vertical joints
- No shuttering required for joints.

Application Methodology

Step no 1: Surface Preparation

Contact surfaces should be sound and clean. Remove all loose material, heavy mill scale and oily deposits.

Step no 2: Priming

Primers may be used on very porous substrates but are not mandatory. The prepared surfaces should be pre dampened. Remove any standing water before placing the ReArm Crete TJM mortar.

Step no 3: Product Mixing

ReArm Crete TJM is supplied in 25kg bags. The water requirement to produce the mortar is 4.5 to 5.0 liters of water

Mixing Prior to Pumping

Pour the required quantity of water into a suitable mixing vessel. Slowly add the powder to the water whilst continuously mixing. Mechanical mixing is recommended. Suitable mixers include a slow speed high torque drill with a Mortar Stirrer or a forced action mixer.

“Duo Mix” Mixing:

Mixer pumps, such as the Duo Mix will mix the ReArm Crete TJM on the pump unit prior to pumping into place. Load the ReArm Crete TJM into the mixer-pump in accordance with the equipment manufacturer's instructions.

Step no 4: Product Application:

Hand mixed mortar should be loaded into a suitable pump unit and placed in accordance with the pump supplier's instructions. Duo Mix units will allow the mortar to be mixed and placed continuously from the single unit. Pumping rates of some 12 to 15 liters per minute have been found to be satisfactory. At these rates the buildup of hydrostatic pressure in vertical joints will not cause the grout to flow from openings in the jointing area. Ensure complete filling of the gap and then finish the exposed surface with a dampened steel trowel.

Curing:

ReArm Crete TJM may be applied at temperatures between 10°C and 35°C. In moderate ambient conditions no special curing is necessary. Under hot and high drying conditions curing of exposed surfaces should be undertaken in accordance with good concrete practice.

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Specification Outline:

Placing of mortar for structural fill and support shall be carried out using Thixotropic Joint Filler as manufactured by MYK Arment. The product must be stored, handled and used strictly in accordance with the manufacturer's instructions.

Technical Data

Typical Properties @ 30°C

Density	Approx. 2100 kg/m ³
Water addition	4.5 - 5.0 Liters per 25 kg bag of ReArm Crete TJM
Setting Times @ 30°C	
Initial	Approx. 360 minutes
Final	Approx. 420 minutes
Compressive strength (BS 1881- part 116: 1983) Water curing after one day Age at test	
1 day	25 N/mm ²
7 days	45 N/mm ²
28 days	60 N/mm ²
Note: Cubes Size of the cubes used 70.6mm x 70.6mm x 70.6mm tested at 30°C	

Standards

ReArm Crete TJM has been tested in accordance with appropriate parts of the following standard EN12390

Yield

Each 25 kg bag ReArm Crete TJM will yield approximately 13.5 litres of mixed materials.

Packaging

ReArm Crete TJM is supplied in 25kg HDPE bags.

Storage and Shelf Life

ReArm Crete TJM will have a storage life of 6 months in unopened bags when kept in dry conditions at a temperature between 10°C and 35°C. Storage at higher temperatures or high humidity may reduce shelf life.

Health & Safety

ReArm Crete TJM is alkaline when mixed with water and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing and wear safety glasses, dust mask and gloves. If skin contact occurs wash thoroughly with clean water. Should eye contact occur rinse immediately with plenty of clean water and seek medical advice.

Full health and safety data are given in the Material Safety Data Sheet.

Fire:

ReArm Crete TJM is non-flammable

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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.