

CWC®SMARTCEM M

Chloride Free Cementitious Injectable Non-Shrink Grout

Description

CWC SMARTCEM M a non-ferrous fluidized expanding type of injectable grout, consisting of dry premixed blend of ultrafine special cement, set regulating and reactive chemicals. It does not contain chloride in any form. This is the latest development of cementitious, ready to use, high strength injectable grout which can penetrate even in finer cracks.

Indicative Characteristics

Appearance	Free flowing grey powder
Typical W/P Ratio	0.30 (for Free flow mix)
Free Expansion % v/v	>1%
Compressive Strength, N/mm ² (Typical) at 27°C, as per IS 4031	
1 day	15
3 days	25
7 days	35
28 days	45
Bond Strength, N/mm ² (Typical) at 27°C	
1 day	2
3 days	3.2
7 days	3.8
28 days	4.5

Note: Compressive strength is determined by using 5cm cube specimen at laboratory controlled condition, Water demand may vary depending upon site conditions.

Uses:

Grouting in concrete structures with medium to fine cracks, crevices, honey-combed concrete etc. and for grouting anchor bolts of machine foundation and columns.

Features

- Better flow at low w/p ratio.
- Controlled volume expansion to compensate shrinkage of cement paste and allow positive contact with crack surfaces
- Chloride free - does not attack pre-stressed cable reinforcement
- Rapid development of early strength
- High final strength
- Non-toxic

Method of Application Surface Preparation

For injecting grout in cracks of concrete structures, normal procedure of injection is to be followed. For grouting anchor bolts and base plates, proper surface preparation is essential i.e. removal of laitences, oil, grease or any other loose materials. Before injection of cracks, the concrete surface is to be fully saturated with water at least 8 to 10 hours application of grout.

Mixing

Use mechanical mortar mixers, preferably of the slow speed (250-350 rpm) paddle mixer. Mix the powder with 16-20% of water to make lumps free paste. After getting paste consistency add extra water to get required injectable consistency. Allow approx 5 minutes for mixing. Thorough mixing is essential for achieving maximum results. Add CWC®SMARTCEM M slowly into recommended amount of clean water in a mixer.

Shelf Life & Storage

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

Packing

20 kg waterproof laminated HDPE bag

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Precautions

- Preferably store in sealed conventional containers, protected from extreme weather conditions.
- Clean all tools and application equipment with water before it set. Clean immediately after use. Hardened / cured material can only be mechanically removed.

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.cwcchemicals.com

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