



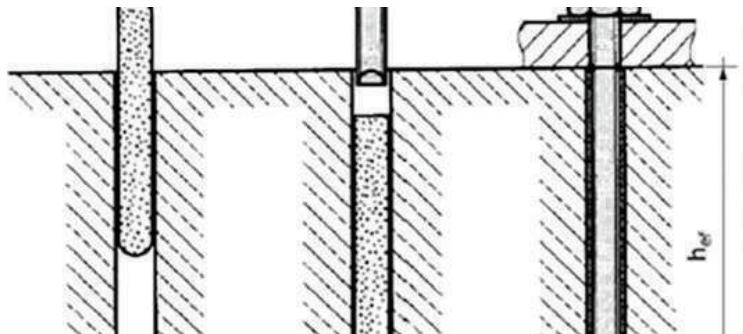
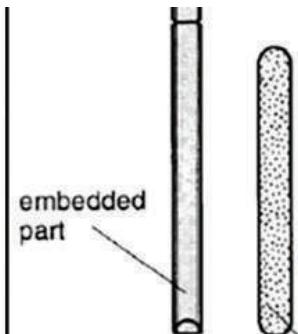
Regd. No.: 118690/070/071

REDATA Pvt. Ltd.
Group of Companies



MARKCHEM ROCKFIX CM1

(CEMENT CAPSULE)



DESCRIPTION

ROCKFIX CM1 is a cementitious anchor product supplied as a ready-to-use dry powder encapsulated in a perforated skin. When required for use, the capsule is submerged in water and through the perforations water wet out the powder to form a non-shrink and thixotropic cementitious grout. The overall cohesiveness of the grout allows the capsule to be used in wet conditions or even in moving water without excessive grout wash-out. Fast setting version is also available against specific requirements.

USES

For fixing of rock-bolts/anchor bolts/wooden dowels with full column grout for strata-control in tunneling and mining to minimize roof falls.

PRECAUTIONS

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply / using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.

FEATURES / ADVANTAGES

- Eliminates use of grout pump totally and uncertainty in full column grouting-saving in labor and Equipment
- Incorporated additives counteract shrinkage and ensure positive contact
- Chloride free-safe in use with steel
- Thixotropic property minimizes grout loss from overhead holes or under condition of running water



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MECHANICAL PROPERTIES

Parameter	Standard Values
Presence of chloride	0.1% maximum
Shrinkage	No shrinkage
Expansion	Maximum of 0.8%
a) If measured by autoclave method or b) If measured by lechattier's method	Maximum of 10mm
Major chemical constituents Sulfuric Anhydride	Standard 15% maximum

APPLICATION

- Dust free hole is a must and this may be achieved by compressed air or hole may be created by self-flushing drill.
- Drill hole to the specified depth with rotary/percussive drilling machine and the hole should be clean free from obstruction.
- Select the correct resin capsules that have been specified for the job.
- Insert ROCKFIX CM1 cartridge/capsules inside the hole with the bolt or a stemming rod.
- Insert the stone bolt and rotate with the drill whilst pushing progressively through the cartridge @ on second per 25 RPM between 150 & 400 is preferred. Avoid high speed.
- When bolt reaches the bottom of the 25 mm hole, rotate for a further 2 / 3 seconds to ensure complete mixing detached drill from adaptor and leave anchor undisturbed until set
- Do not over mix the resin. If mixing continues beyond the recommended spin time and into the gel time, solidifying resin be destroyed

TYPICAL CHARACTERSTICS

Parameter	Standard Values
Average of soaking time (minutes)	03 Min (Max)
Initial setting time(Minutes) including soaking time	10 Min (Max)
Final setting time (Minutes) including soaking & initial setting time	15 Min (Max)
Compressive strength gained after 30 Minutes 1.2 hrs. 2.24 hrs. 3.7 days. 4.21 days. 5.28 days.	Minimum in MPa >3.0 >7.0 >12.0 >12.0 >12.0 >12.0
Anchorage Strength after 30 Minutes 2 hrs. 24 hrs. 28 days	Minimum in tones 4.0 8.0 10.0 12.0

PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

DISCLAIMER

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