

ROCKFIX - C

Cementitious rock capsules for anchor bolts

DESCRIPTION : **ROCKFIX- C** 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 wets 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 tunnelling and mining to minimize roof falls.

FEATURES

- ❖ Eliminates use of grout pump totally and uncertainty in full column grouting-saving in labour 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.
- ❖ Factory controlled pre-packed material with consistent quality.

APPLICATION

- ❖ Drill hole to the specified depth with rotary/percussive drilling machine and the hole should be clean and free from obstruction.
- ❖ The capsule should be soaked in water for a minimum of four minutes using a through of water or longer if there are still signs of air release (bubbling) from the capsule. Soaking upto 5 minutes for fast set and 10 minutes for normal set may be restricted.
- ❖ Insert the capsule into the drilled hole one after the other by a stemming rod until hollow column is filled.
- ❖ Insert the rock bolt or dowel into the hole through the wet capsules. If required, use air auger (150-400 RPM) or leg drill to drive the bolt home.

TECHNICAL DATA

Normal diameter	:	15mm to 45 mm or as per requirement.
Nominal length	:	150mm to 500mm or as per requirement.
Approximate volume	:	Actual weight of the inserted capsule of final grout in liter divided by two.
Minimum soaking time	:	4 minutes (fast set)
Maximum soaking time	:	5 minutes (normal set)
Compressive strength	:	Typical values, kg/cm ² (results at 30° C @ 65% RH)
Time/Age	:	2 hours 4 hours 24 hours 28 days
Rockfix C (normal)	:	- - 460
Rockfix C (fast)	:	200 240 300 430
Effect of temperature	:	The hardened grout is non-flammable and anchor-strength remains unaffected upto a temperature of 25°C
Shelf life	:	Six months from the date of manufacture.
Packing	:	In card board box ranging from 25 to 50 nos.
Storage	:	Highly moisture sensitive material and store in a dry place.