

MINOVA

CAPCEM™ 1/2 CAPSULES

CEMENTITIOUS ANCHORING GROUT



DESCRIPTION

Capcem™ Fast (1/2) capsules are supplied as ready to use dry powder encapsulated in a water permeable skin. When required for use, the capsules are soaked in water which is absorbed through the skin, forming a thixotropic non-shrink grout. The capsules absorb the correct amount of water.

APPLICATION AND USES

For easy grouting in rock anchoring applications, particularly overhead roof bolting as encountered in mining and tunnelling.

ADVANTAGES

- > Encapsulated
- > Controlled water: powder ratio
- > Eliminates mixing equipment
- > Minimal wastage of grout
- > Non-shrink - Expansion agents counteract shrinkage and ensure effective contact between bar and grout
- > Chloride Free - Rapid strength development without the use of chlorides ensures absence of corrosion
- > Thixotropic - No loss of grout even from overhead holes, due to the thixotropic nature of the grout

TECHNICAL PROPERTIES

Setting Properties

The table below gives the typical laboratory results for the pull strength per 200mm bond length on 16mm deformed rebar, and compressive strength at various curing ages, curing at 25°C.

GROUT PERFORMANCE (TYPICAL)		
CURING AGE	COMPRESSIVE STRENGTH (MPa)	PULL STRENGTH (Tonnes)
1 Hour	5.2	2.5
2 Hours	6.0	3.6
4 Hours	7.3	3.9
24 Hours	7.9	4.5
7 Days	9.4	6.2
28 Days	13.0	8.0
56 Days	16.1	9.5

APPLICATION METHOD

The Capcem™ Fast (1/2) capsules are removed from their packaging and soaked in clean water for 3 minutes, or longer if there are still signs of air release (bubbling) from the capsules.

Only 1 bag of capsules should be soaked at a time, otherwise the grout may begin to set before installation.

Once the contents of the capsules are thoroughly wetted out the capsules are removed from the water, allowed to drain for 1 minute to remove excess water, and then inserted into the drilled hole with the aid of a charging stick or pneumatic loader until the hole has been filled. The bar is then wetted, inserted into the hole and pushed through the capsules to the back of the hole.

SAFETY INSTRUCTIONS AND LIMITATIONS

Capcem™ Fast (1/2) capsules are non-toxic, but like all cements, are alkaline in nature. The use of gloves, goggles and a dust mask is recommended. Splashes should be removed from skin and eyes by washing with plenty of clean water. In the case of splashes in the eyes, medical attention should be sought immediately. Refer to Material Safety Data Sheet. It must be noted that rock temperature will influence rate of set and strength gain; the higher the temperature, the faster the set and more rapid the strength gain. Capcem™ Fast (1/2) capsules should only be used for rock temperatures up to 45°C. If rock temperature is above 45°C, consult our technical department.

STORAGE CONDITIONS AND SHELF LIFE

Capcem™ Fast (1/2) capsules have a shelf life of 12 months when stored unopened in the original bags in cool, dry conditions. Store out of direct sunlight to prevent degradation of packaging.

DISPOSAL

Follow local regulations.

TECHNICAL SUPPORT

We provide technical advisory service by a team of specialists in the field. The service includes on-site assistance and advice on evaluation trials and laboratory work.

DISCLAIMER

All information contained in this document is provided for informational purposes only and is subject to change without notice. Since Minova cannot anticipate or control the conditions under which this information and its products may be used, each user should review the information in the specific context of the intended application. To the maximum extent permitted by law, Minova specifically disclaims all warranties express or implied in law, including accuracy, non-infringement, and implied warranties of merchantability or fitness for a particular purpose. Minova specifically disclaims, and will not be responsible for, any liability or damages resulting from the use or reliance upon the information in this document.

PACKAGING AND TRANSPORTATION

Capcem™ Fast (1/2) capsules are supplied in woven polypropylene carrying bags with an inner polythene liner. The following standard sizes are available:

DIAMETER (mm)	NUMBER PER BAG	MINIMUM GROUT VOLUME YIELD PER CAPSULE (ml)	MINIMUM GROUT VOLUME YIELD PER BAG (lt)
25	30	125	3.75
28	28	150	4.20

Note: Allowance should be made for wastage when estimating.

MANUFACTURER

Minova International Ltd

Africa Office:
23 Botha Street, Alrode, 1451
South Africa

CUSTOMER SERVICE

Minova International Ltd

+ 27 (11) 9231900

Email: salesorders.africa@minovaglobal.com

Website: www.minovaglobal.com