

MINING / CONSTRUCTION

Capram™ Capsules

CEMENTITIOUS PUMPED ANCHORING GROUT

DESCRIPTION

Capram™ Capsules are supplied as a 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 to form a thixotropic non-shrink grout.

Additives impart controlled expansion to the grout and reduce water requirement to achieve grout workability. The low water/cement ratio ensures high early strengths, particularly at low temperatures. Cohesiveness of the grout allows it to be used in wet hole conditions.

APPLICATION AND USE

For easy grouting of rock anchors, particularly of overhead roof bolts as encountered in mining and tunnelling applications.

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 DATA

GROUT PERFORMANCE (TYPICAL)

Grade	Slow	Medium
Pump Life	60	60
Grout Set Time (minutes)	180	150
Load bearing time * (hours)	24	12

* Maximum time to achieve 5 tons/500mm bond, 16 mm deformed rebar, 25°C.

APPLICATION METHOD

The required number of Capram™ Capsules are removed from their packaging and soaked in clean water for approximately 10 minutes, then removed from the water and inserted into the Capram™ Pump. For optimum results it is recommended that the capsule be used immediately after soaking. For full application instructions, refer to the Capram™ Capsules application guide. Each capsule contains about 3.8kgs of cement product, yielding about 2.5 litres of grout per capsule.

Diameter (mm)	Number per bag	Minimum grout volume yield per capsule (l)	Minimum grout volume yield per bag (l)
90 x 400	2	2.5	5.0

SAFETY INSTRUCTIONS AND LIMITATIONS

Capram™ Capsules are non-toxic, but like all cements, are alkaline in nature. The use of gloves and goggles 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. See Material Safety Data Sheet.

It must be noted that rock temperatures will influence rate of set and strength gain; the higher the temperature the faster the set and more rapid the strength gain.

PACKAGING AND TRANSPORTATION

Capram™ Capsules are supplied in woven polypropylene carrying bags with an inner polythene liner (2 capsules per bag) or in water resistant boxes (4 capsules per box).

STORAGE AND SHELF LIFE

Capram™ Capsules have a shelf life of 12 months when stored in cool, dry conditions in the original packaging.

DISPOSAL

Follow local regulations.

DISCLAIMER

The Minova Logo is a registered trademark.

Copyright © 2019 Minova. All rights reserved

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.

ADDITIONAL DOCUMENTATION

- MSDS of Capram™ Capsules
- Capram™ Capsules application guide

LIST OF REPRESENTATIVES

- AUSTRIA: Minova MAI GmbH
- CZECH REPUBLIC: Minova Bohemia s.r.o.
- FRANCE / BELGIUM: Sales office Minova France / Belgium
- GERMANY: Minova CarboTech GmbH
- ITALY: Minova CarboTech GmbH Italy branch
- KAZAKHSTAN: Minova Kazakhstan LLP
- POLAND: Minova Ekochem S.A.; Minova Arnall Sp. z o.o.; Minova Ksante Sp. z o.o.
- RUSSIA: ZAO "Carbo-ZAKK"
- SLOVAKIA: Minova Bohemia s. r. o., organizačná zložka
- SOUTH AFRICA: Minova Africa (Pty) Ltd.
- SPAIN: Minova Codiv S.L.U.
- SWEDEN / NORWAY: Minova Nordic AB
- UNITED KINGDOM: Minova Weldgrip Ltd.; Minova International Ltd.
- APAC: Minova Australia Pty Ltd.
- AMERICAS: Minova USA Inc.

CUSTOMER SERVICE

For additional support options available at your area, contact our local offices.

www.minovaglobal.com