

# Capram Capsule



## Cementitious Pumped Anchoring Grout

### Uses

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

### Advantages

- Encapsulated
  - Controller water : powder ratio.
  - Eliminates mixing equipment.
  - Minimises wastage of grout.
- Non-shrink  
Expansion agents counteract shrinkage and ensure effective contact.
- Chloride-free  
Rapid strength development without the use of chlorides promotes absence of corrosion.
- Thixotropic  
Minimum loss of grout even from overhead holes due to the thixotropic nature of the 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.

### Grout Properties:

GRADE	SLOW	MEDIUM
Pump Life	60	60
Grout Set Time (minutes)	180	150
Pull Strength * (hours)	24	12

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

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.

### Application instructions

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 Pump data sheet. Each capsule contains about 3.8kgs of cement product, yielding about 2.5 litres of grout per capsule.

### Packaging

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

### Storage/Shelf life

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

### Precautions

#### Health and safety

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.

#### Technical Support

Minova RSA provides a technical advisory service supported by a team of specialists in the field. The service includes on site assistance and advice on evaluation trials and laboratory work.

#### Additional information

Capram Capsules can also be used in conjunction with Lokset resin capsules for full column grouting with a point anchor at the back of the hole for immediate support. Spinning in of the bolt is then required to mix the resin.

Minova RSA is a market leader specialising in the supply of high performance chemical products for the mining and tunnelling industries.

Minova RSA range of mining products includes anchoring and backfill systems, bagged cement products, high yield grouts, mine sealants, equipment and accessories.

### **Important note**

Minova RSA products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Minova RSA endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.

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