

Non-shrink, cementitious anchor grout

Uses

For fixing of fully grouted steel rock bolts or wooden dowels for strata control in tunnelling and mining to minimise fall of roof and as support system.

Advantages

- Reliability - Laboratory controlled prepacked materials eliminate all problems of controlling grout mixing underground and thus minimise risk in achieving a full column grouted bolt or dowel.
- Encapsulated - Grout pumping totally eliminated. Allows cost saving in labour and equipment.
- Non-shrink - Expansion agents counteract shrinkage and ensure effective contact
- Chloride free - Early strength development without the use of chlorides. Safe in use with embedded steel.
- Choice - Fast, Medium and slow set capsules available to meet strength development requirements in each situation.

Description

Conbextra Capsule is supplied as a ready to use dry powder encapsulated in a perforated skin, available in three grades - Fast, Medium and slow set. When required for use the capsule is submerged in water to allow sufficient water to be absorbed through the perforations to form a non-shrink, thixotropic cementitious grout.

Additives in the grout impart controlled expansion characteristics, stabilise the grout and control the water uptake to ensure an optimum water powder ratio for high early strengths. The overall cohesiveness of the grout allows it to be used in wet conditions or even in moving water without excessive grout washout.

Technical support

The company provides a technical advisory services supported by a team of specialists in the field.

Properties

Effect of temperature : The hardened grout is nonflammable and will provide satisfactory anchorage up to 200°C

Toxicity : Product is non-toxic.

Setting time :

	Initial	Final
Fast set	3-8 min.	10-20 min.
Medium set	40-45 min.	50-60 min.
Slowset	6-7 hours	7- 8 hours

Application instructions

Drill hole to specified depth using rotary / percussive drilling machine; check hole is clean and free of obstruction.

Remove the required number of Conbextra Capsules from their packing and place in a trough of water. Conbextra Capsules should be soaked for 1-3 minutes to allow correct water uptake. The capsules may be soaked in water for a maximum of 3-4 minutes (Fast & medium set) or 10 minutes (Slow set) without any adverse effects.

When the Conbextra Capsule is thoroughly wetted out, remove from the water and insert into the drilled hole. With the aid of a stemming rod or similar, push the capsule to the end of the hole and tamp.

Insert subsequent Conbextra Capsules in a manner until the required number are inserted.

Insert the rock bolt or dowel into the hole and push it in as far as possible. If necessary, the rock bolt/dowel should then be pushed to the bottom of the hole with the aid of an air auger (150 - 400 rpm) or leg drill.

Estimating

Packaging

Conbextra Capsules are supplied in double lined polythene sacks and corrugated cardboard boxes.

Standard Sizes available are :

40mm dia x 300mm length

32mm dia x 300mm length

25mm dia x 300mm length

Other lengths and/or diameter as per individual customer's requirements can be made depending on quantities.

Storage

In dry place. Unused Conbextra Capsules should always be kept under double lined polythene cover to avoid exposure to atmosphere.

Shelf life

Six months from date of manufacture when stored under normal ware house conditions in original packagings. Shelf life will be reduced when exposed to humid conditions.

Conbextra Capsule



Precautions

Health and Safety

The capsule grout is based on hydraulic cements which are alkaline. Splashes on skin should be washed off. Splashes in eyes should be washed out immediately and medical advice should be taken.

Additional information

Fosroc supplies a range of associated products for the construction and anchoring industries. Details are available on request.



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