

Uses

Conbextra CB is a highly flowable high strength grout which can be used for various void fill applications including, backfilling behind concrete tunnel segments, bottom up cable bolt grouting applications and general civil applications.

Advantages

- High strength development allows early tensioning of cables
- Gaseous expansion system compensates for shrinkage in the plastic state
- Develops early high strength without the use of chlorides
- Excellent pumpability over both flowable and thixotropic consistencies

Description

Conbextra CB, a non shrink cable bolting grout is supplied as a ready to use dry powder. The addition of a controlled amount of clean water and mechanical mixing in a high shear grout mixer is required to produce a grout to the desired consistency.

Technical Support

Parchem offers a comprehensive range of high performance, high quality construction products. In addition, the company offers a technical support package to specifiers and contractors as well as technical advice from staff experienced in the construction industry.

Properties

Test Method		Result		
		3.85L	4.35L	4.75L
Compressive Strength MPa AS 1478.2 2005	1 day	50	30	25
	7 days	75	65	55
	28 days	100	85	75
Fresh Wet Density	2100kg /m ³			
Pumping Life	120 mins			
Set Time	7.5 hrs			

Clarification of property values: The typical properties given above are derived from laboratory testing at 23°C. Compressive strengths stated above were measured using cube samples. Test results obtained will vary if testing is carried out to an alternative standard or sample dimensions are used.

Application Instructions

Preparation

Ensure holes are clean and free from debris. Install cable taking care not to kink the breather tube in the process. Ensure grout tube is correctly positioned and secured at the bottom of the hole. It is recommended to flush water through the grouting lines and up the hole to provide lubrication and to prevent water being absorbed into the strata.

Mixing

A forced-action mixer is essential. Mixing at a slow speed (400/500 rpm) in a suitably sized drum using appropriate equipment such the Ransom 140 x 600 M14 Helical mixing paddle (product code: N4020892-UNIT) fitted to a heavy-duty 1600W mixer, such as Ransom 1602 E (product code: NP7EV160-UNIT) or equivalent is acceptable for mixes up to 40kg.

Larger quantities will require a high shear vane mixer. Do not use a colloidal impeller mixer.

The water requirements (litres / 15 kg bag) are as follows:

Thixotropic : 3.85 - 4.35
Flowable: 4.35 - 4.75

Fill mixer with water. Start mixer, then slowly add Conbextra CB powder. The total contents of the Conbextra CB bag should be slowly added and continuously mixed for around 3 minutes. If powder addition is too fast, large lumps will Form and final mix will be slow reaching uniformity. Mix until lump free.

Placing

Continuous flow of grout is essential, therefore ensure that sufficient grout is available to completely fill the hole. Stop pumping when air ceases to bubble out of breather tube. Ensure grout tube is folded and tied off to prevent seepage from the hole.

Cleaning

Conbextra CB should be removed from tools and equipment immediately after use with clean water. Cured material can be removed mechanically.

Estimating

Supply

Conbextra CB is supplied in 15 kg bags.

Material code: FC501087-15KG

Yield

At the recommended consistency each 15 kg bag will yield approximately 9 - 10 litres.

Storage

Conbextra CB has a shelf life of 24 months if kept in a dry store in sealed bags. If stored in high temperature and high humidity locations the shelf life may be reduced.

Fosroc®

Conbextra CB

Important notice

A Safety Data Sheet (SDS) and Technical Data Sheet (TDS) are available from the Parchem website or upon request from the nearest Parchem sales office. Read the SDS and TDS carefully prior to use as application or performance data may change from time to time. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or a doctor for advice.

Product disclaimer

This Technical Data Sheet (TDS) summarises our best knowledge of the product, including how to use and apply the product based on the information available at the time. You should read this TDS carefully and consider the information in the context of how the product will be used, including in conjunction with any other product and the type of surfaces to, and the manner in which, the product will be applied. Our responsibility for products sold is subject to our standard terms and conditions of sale. Parchem does not accept any liability either directly or indirectly for any losses suffered in connection with the use or application of the product whether or not in accordance with any advice, specification, recommendation or information given by it.



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Parchem Construction Supplies Pty Ltd
7 Lucca Road, Wyong NSW 2259
Phone: 1300 737 787
www.parchem.com.au
ABN 80 069 961 968

Distributed in New Zealand by: Concrete Plus Ltd
23 Watts Rd, Sockburn 8042 Ph: 0800 657 156