Fosroc® Conbextra® CB

constructive solutions

High flow, pumpable cementitious grout

Uses

Conbextra CB is a highly flowable high strength, Class A 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
- RCS (Respirable Crystalline Silica) Hazard Free*

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.

*Conbextra CB is classified not hazardous for RCS in accordance with Australian Inventory of Industrial Chemicals; contains <0.1% RCS.

Properties

Test Method		water addition		
	20kg bag	5.1L	5.9L	6.8L
Compressive Strength MPa AS 1478.2 2005	1 day 7 days 28 days	50 75 100	30 65 85	25 55 75
Fresh Wet Density	2100kg /m³			
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^{0}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. Guidelines for sampling grout on site for compressive strength testing are available on the Fosroc website.

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. Mix for 3 to 5 minutes at a slow speed (400/500 rpm) in a suitably sized drum using appropriate equipment such as a 120/140mm helical mixing paddle fitted to a heavy-duty 1500W mixer.

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

The water requirements (litres / 20kg bag) are as follows:

Thixotropic :	5.1 - 5.8
Flowable:	5.8 - 6.8

Fill mixer with required 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 3 to 5 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.

Supply

Conbextra CB is made to order and supplied in 20kg moisture resistant plastic bags.

Conbextra CB 20kg (MTO*):	FC501087-20KG
*Made to Order:	Min.order qty. 75 x 20kg
Lead time:	14 - 21 days

Yield

At the recommended consistency each 20kg bag will yield approximatly 12 to 13 litres.

Storage

Conbextra CB has a shelf life of 36 months from date of manufacture if kept in the original, unopened bags. Refer to the manufacture date indicated on the packaging. Do not use if there are lumps in the product, or a loss of workability (requiring more water to be added) is experienced.

If stored in high temperature and high humidity locations the shelf life may be reduced.

Important notice

A Safety Data Sheet (SDS) is available from the Fosroc website. 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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