

Conbextra STD

Multi purpose cementitious construction grout

Uses

Conbextra STD is used for a variety of purpose within the construction industry. It is particularly suitable for bedding in pre- cast units such as walls, slabs and refuse chutes. It can be used in both pourable and plastic consistency states.

Advantages

- Non- shrink
- No metallic iron content to cause staining
- Chloride free
- Pre-packaged grout overcomes potential on-site proportioning variations.

Description

Conbextra STD, multi purpose cementitious construction grout, is supplied as a ready to use dry powder. The additional of a controlled amount of clean water produces a flowing grout. Additives impart controlled expansion characteristics and reduce the water necessary to give a fluid grout. The grout can be used up to 100mm thick.

Conbextra STD is a blend of Portland Cement, graded fillers and chemical additives which caused controlled expansion in the plastic state. By minimising the amount of water added a non shrink mortar can be produced. This will be suitable for bedding of concrete precast units to provide positive connection between elements.

Instructions for use.

1. Surface Preparation

Any substrate must be cleaned of oil, grease and loose material. Any fixing pickets should also be cleaned. To assist in the formation of bond between substrate and grout, pre soaking of the substrate surface with water is advisable.

- Formwork

All formwork used for grouting should be leakproof. This can be achieved by sealing it with foam rubber strip and sealant.

2. Mixing

For best results, a mechanically powered grout mixer should be used. When quantities up to 50kg are used, a slow speed drill fitter with a high shear mixer is suitable. Larger quantities will require a high shear vane mixer. Do not use a colloidal impeller mixer/

To enable the grouting operation to be carried out continuously, it is essential that sufficient mixing capacity and labour are available. The use of grout holding tank with provision to gently agitate the grout may be required.

Technical Support

Fosroc offers a comprehensive range of high quality, high performance construction products. In addition, Fosroc offers a worldwide technical support and on-site services to specifiers, contractors, and other end users.

Specification Clause

All grouting where shown on drawing must be carried out using Conbextra STD manufactured by Fosroc and used in accordance with manufacturer's datasheet.

Conbextra STD

Typical Properties:

Compressive strength (N/mm²)

	Pourable	Plastic
1 day	15	30
3 days	30	50
7 days	40	55
28 days	45	70

Typical Compressive strength

Consistency	Temp	Water / Powder
Pourable	30 deg c.	0.22
Plastic	30 deg c/	0.118

Water Addition

The amount of added water to obtain a pourable consistency is precise and an accurate gauging method must be employed.

According to the grout consistency required, the water addition to each 25kg standard pack of Conbextra STD should be:

Pourable consistency	:	up to 5.5 Litres
Plastic consistency	:	up to 4.0 Litres

Placing

For free flowing grout, it is essential to maintain a good hydrostatic head. Pouring should be a continuous process to ensure that the flow of the grout is not allowed to stop.

The time taken to pour each complete mix must, therefore, be regulated to the time take to prepare the next one.

Pouring should be from one side only, e.g. via the formed hydrostatic head on a bed plate installation – to- avoid the creation of voids by entrapment of air or surplus water.

Conbextra STD may be placed in thickness up to 50mm maximum one pour. For thicker sections up to 100mm it is necessary to fill out the Conbextra STD using well graded aggregates in the size range of 3mm up to 15mm. Quantities of aggregate added to the Conbextra STD should not exceed 1 part aggregate to 1 part Conbextra STD by weight.

Pumping

Conbextra STD can be pumped. Contact Fosroc Technical Department for details of suitable pumping equipment.

Curing

On completion of the grouting operation all exposed areas which are not to be cut back should be thoroughly cured. This should be done after the initial hardening of the grout by continuous application of water and / or wet hessian, or by application of a suitable curing membrane such as Concure P.

Limitations

Conbextra STD is not suitable for grouting beneath machine or equipment beds. For these applications Conbextra GP or Conbextra HF should be used. Consult Fosroc's Technical Department for further advice and information.

Estimating

- Supply

Conbextra STD	:	25kg moisture resistant bags
Concure P	:	25 Litres Pails

Conbextra STD

- Yield

Yield of 25kg pack at

pourable consistency : 14.2 Litres

Yield of 25kg pack at

plastic consistency : 13.5 Litres

Storage

Conbextra STD has a shelf life of 12 months if kept in a dry store in unopened bags.

Precautions

- Health and safety

Conbextra STD is alkaline and should not come into contact with skin or eyes. Avoid inhalation of dust during mixing. Gloves, goggles, and dust mask should be worn. If contact with skin occurs, wash with water. Splashes to eyes should be washed immediately with plenty of clean water and medical advice sought.

Fire

Conbextra STD is non-flammable.

Conbextra is the trade mark of Fosroc International Limited



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Important note

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