

Conbextra STD

Non-Shrink Cementitious Grout

Uses

Conbextra STD is used for a variety of purposes within the construction industry. It is particularly suitable for bedding in precast units such as walls and slabs. It can be used in both pourable and plastic consistence 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 constructions grout is supplied as a ready to use dry powder. The addition 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.

Conbextra STD is a blend of Portland cement, graded fillers and chemical additives which cause controlled expansion in the plastic state. By minimizing 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.

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 service to specifiers, end-users and contractors.

Properties

Consistency	Temp	Water: Powder
Pourable/flowable	23±3°C	0.22
Plastic	23±3°C	0.15

Test Method	Typical Result at 23±3°C
Compressive Strength ASTM C109/109M-11	Pourable 10-15 N/mm ² @ 1 day 35-40 N/mm ² @ 7 days 40-45 N/mm ² @ 28 days

Specification Clauses

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

Instructions for Use

Formwork

All formwork used for grouting should be leak proof. This can be achieved by sealing it with a foam rubber strip or sealant.

Mixing pourable consistency

For the best results a mechanically powered grout mixer must be used. For 1 bag mixing a slow speed drill with a suitable paddle is adequate. Ask your Fosroc representative for details.

For larger quantities ensure that the machine capacity and the number of operatives is adequate to enable grouting to be carried out as a continuous operation.

- Place the specified amount of water in the mixer.
- Slowly add the contents of the Conbextra STD pack, mixing continuously.
- When all contents are added – mix continuously for at least 5 minutes, making sure that a smooth, even mix is obtained.
- Place within 20 minutes to gain the full benefit of the expansion process. Do not add extra water.

Conbextra STD

Plastic consistency

A mechanical mixer must be used, either a pan mixer or a slow speed drill a suitable paddle. A free fall mixer may not be suitable. The correct quantity of water to achieve the consistency must be used. Follow the same mixing procedures as the pourable consistency.

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

Pouring

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 taken to prepare the next one.

Pouring should be from one side, eg 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 at one pour. For thicker sections up to 100mm it is necessary to fill out the Conbextra STD using the 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 of Conbextra STD by weight. For ready used Grouting with aggregate, FOSROC has special product: **Conbextra GP Premix**.

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 curing membrane such as Concure PI.

Limitations

Conbextra STD is not suitable for grouting beneath machine or equipment beds. For these applications Conbextra GP , Conbextra SF, or Conbextra HF should be used.

Estimating

Supply

Conbextra STD	:	25 kg bags
Concure PI	:	20 litre pails

Yield

Yield of 25kg bags

Pourable consistency	:	± 14.2 litres
Plastic consistency	:	± 13.5 litres

Storage

Conbextra STD has a shelf life of 12 months (T: 25- 35 °C, RH < 55%) in unopened original sealed bag. Stored in high temperature and high humidity locations reduce the shelf life.

Precautions

Health & Safety

Conbextra STD is alkali and should not come into contact with skin and 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.



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