



# Conbextra STD

## Multi purpose cementitious construction 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, slabs and refuse chutes. It can be used in both pourable and plastic consistency states.

### Advantages

- Non-shrink
- No metallic iron contents 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 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. The grout can be used up to 100 mm thick.

Conbextra STD is a blend of portland cement, graded fillers and chemical additives which cause 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.

### 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, contractors and other end users.

### Properties

#### Compressive strength (N/mm<sup>2</sup>)

	Pourable	Plastic
1 day:	15	30
3 days:	30	50
7 days:	40	55
28 days:	45	60

#### Typical Compressive Strength

Consistency	Temperature	Water/Powder
Pourable	30°C	0.22
Plastic	30°C	0.15

### Specifications clauses

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

### Instruction for use

#### Preparation

Any substrate must be cleaned of oil, grease and loose material. Any fixing pockets 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 a foam rubber strip or sealant.

#### Mixing

##### Pourable consistency

For 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, the number of operatives is adequate to enable grouting to be carried out as a continuous operation.

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

Important: The need to observe the accurate gauging of water addition and the stated mixing time should be stressed to all operatives.

##### Plastic consistency

A mechanical mixer must be used either a pan mixer or a slow speed drill with 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 25 Kg 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 taken 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 50 mm maximum at one pour. For thicker sections up to 100 mm it is necessary to fill out the Conbextra STD using well graded aggregates in the size range of 3 mm up to 15 mm. 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

Cobextra 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	: 25 kg moisture resistant bags
Concure P	: 25 litre steel pails

#### Yield

Yield of 25 kg pack at pourable consistency	: 14,2 litres
Yield of 25 kg 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 installation 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.



## PT. Fosroc Indonesia

Jl. Akasia II Blok A8 No. 1  
Delta Silicon Industrial Park  
Lippo Cikarang  
Bekasi 17550  
Indonesia  
[www.fosroc.com](http://www.fosroc.com)

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**telephone:**  
+ 62 21 897 2104 - 06  
  
+ 62 31 854 9704

**fax:**  
+ 62 21 897 2107  
  
+ 62 31 854 9845

**email:**  
[indonesia@fosroc.com](mailto:indonesia@fosroc.com)