

Conbextra Tie Rod Grout

Thixotropic, cementitious gun grade, non-shrink grout.

Uses:

Conbextra Tie Rod Grout is typically meant for applications of filling tie-rod holes, core cut holes in concrete, brick masonry and in natural stones and joints of paver blocks or flag stones in paving work. Can also be used for pointing in stone or brick masonry to retain structural integrity.

Advantages:

- The mixed grout mortar exhibits stability during application and in hardening stages without shrinkage and debonding from the parent substrate
- Pre-packed, factory controlled. Only addition of water is required at site.
- Very low water permeability, making it highly durable for better water absorption resistance.
- Self-curing, gun grade and negligible waste during application
- Thixotropic can be applied for both vertical and horizontal application.
- Offers excellent consistency during applications giving a smooth, finish.
- Exhibits very good pull off adhesion strength with the substrate.

Description:

Conbextra Tie Rod Grout is supplied as ready-to-use dry powder. The addition of a controlled amount of clean water that produces a high strength, non-shrink pumpable consistency is excellent for applications in tie rod holes and cores that are cut during the construction activity.

Conbextra Tie Rod Grout is a careful blend of Portland cement, graded fillers and chemical additives which impart controlled expansion in the plastic state whilst minimizing water demand. The graded fillers are designed to assist uniform mixing and produce a consistent quality mix.

Technical support:

Fosroc's experienced technical advisory team is available to give technical service on request.

Properties	Results
W/P Ratio	0.23 – 0.25
Density (g/cc)	1.97 ± 0.1 g/cc.
Expansion (%)	0 – 1%
Pot life (mins)	90 mins
Compressive Strength (N/mm ²) ASTM C109 (50mm cube)	@ W/P ratio – 0.25
1 day	> 8 N/mm ²
28 Days	> 30 N/mm ²
Tensile Strength (N/mm ²) EN-196-1	
7 Days	> 3 N/mm ²
28 Days	> 5 N/mm ²
Water Permeability (mL) IS 2645	Nil
Pull out Test @ 28 days (By LDM)	12 N/mm ²
Pull off Bond strength (N/mm ²)	>0.5@ 3mm thickness

Note: The typical physical properties given above are derived from testing in a controlled laboratory environment. Results derived from testing field-applied samples may vary, dependent on actual site conditions.

Application Instruction:

Surface Preparation:

The hole interior surface must be completely free from oil, grease, remains of the PVC sleeves, or any loosely adherent material, to ensure a perfect bond of the applied grout.

Pre-wetting of substrate

Concrete wall tie-rod holes must be pre-wetted to attain a saturated, surface dry condition. The holes must be cleaned with fresh water or water spray. Any before free water must be removed or blown away, prior to start of the application

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Mixing Conbextra Tie Rod Grout :

For best results, always use a mechanical, forced - action mixer, slow speed mixer fitted with a suitable paddle, to achieve an effective consistent mix.

An exact quantity of clean water ranging from 3.45 to 3.75 litres are required to be added to a 15 kg bag to achieve the desired consistency is given below:

2.5 litres of water should be accurately measured and taken for mixing into a 20 litre container. Add powder into the water slowly while stirring the mix continuously till uniform consistency is achieved.

Any lumps shall be quickly crushed and removed with hand using safety gloves. Already hardened lumps must be removed immediately.

Add rest of the water till a gun grade consistent mix is achieved. It may not always be necessary to add the complete quantity of 3.75 litres.

Always plan your quantity to be mixed before grouting.

Mixing should continue for approximately 5 minutes. This will ensure that the grout achieves a smooth even consistency.

Never remix the grout with water again when it loses its workability during application

Placing:

Conbextra Tie Rod Grout can be applied inside the tie rod holes by using a hand-applied or motorized pumpable or sealant gun.

Use spatula, putty blade, or any suitable device to finish off smoothly to ensure the that is levelled with respect to the surrounding substrate.

A wet sponge or a wet cloth can be used for cleaning the surface after application.

Estimating & Packaging:

Conbextra Tie Rod Grout is supplied in high quality 15 kg moisture resistant bags.

Yield

Technically, for estimations in large construction sites, you may consider the yield of a 15 kg bag as 9.5 litres, at a water-powder ratio of 0.25.

Storage & Shelf Life:

Conbextra Tie Rod Grout has a shelf life of 6 months when stored in covered, dry conditions, in sealed bags. If stored in high temperature and high humidity locations, the shelf life may be reduced.

Precautions:

Health and Safety instructions:

Conbextra Tie Rod Grout is alkaline and should not encounter skin and eyes. Inhalation of dust during mixing should be avoided.

Gloves, goggles, and dust mask should be worn. If contact with skin occurs, it must be washed with water. Splashes on the eyes should be washed immediately with plenty of clean water and medical advice sought.

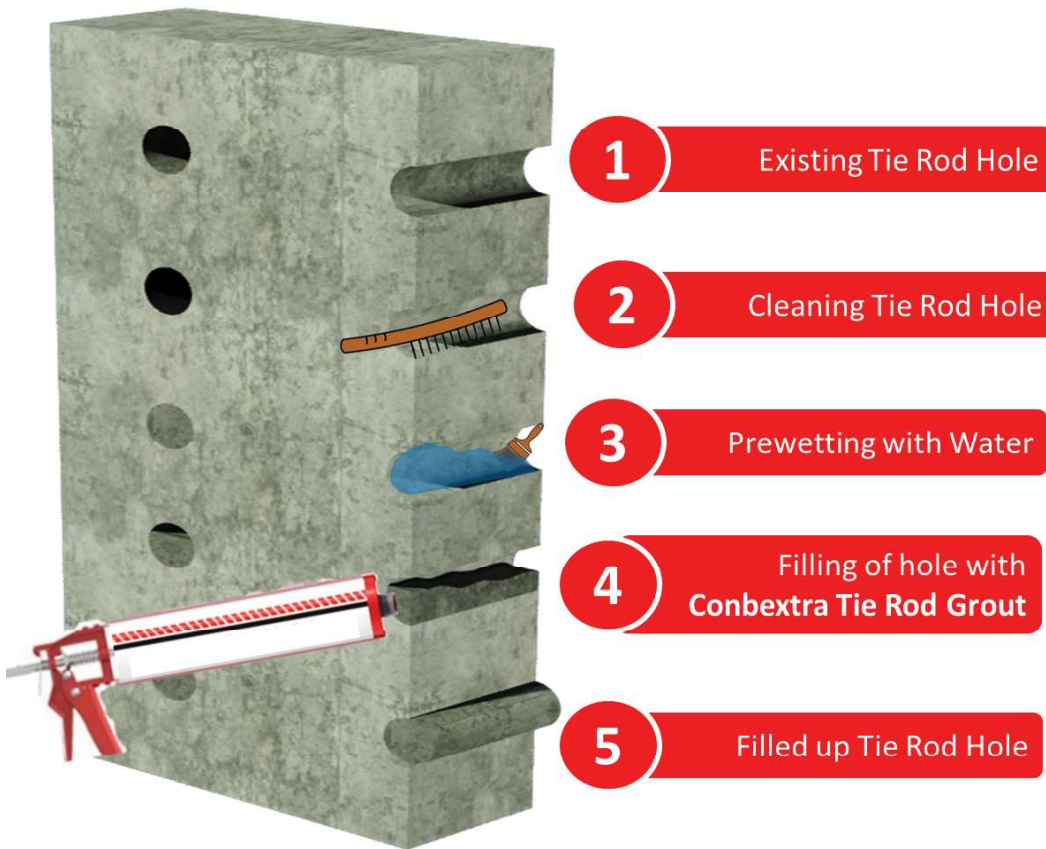
Fire:

Conbextra Tie Rod Grout is nonflammable.

Additional information

For further details about the use and selection of grouts refer to the Fosroc Grouting Solutions

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