



constructive solutions

Conbextra TS*

Non shrink cementitious aggregate filled Grout

Uses

Conbextra TS is used to grout gap thicknesses of 50 - 500 mm. General pre-packaged non shrink cementitious grouts without aggregates are only suitable for gap thicknesses up to 100 mm; due to the high exothermic heat generation and the consequent risk of thermal cracking.

Conbextra TS contains aggregates that reduce this heat generation making it ideally suited to thick section grouting. In pockets, volumes of 100 litres can be achieved easily with Conbextra TS.

Typical applications of Conbextra TS are:

- Thick section voids beneath base plates
- Voids around below-ground tanks
- Large bolt pockets

Advantages

- Non shrink and no metallic
- High compressive strength
- Resistant to impact from dynamic and repetitive loading
- No need to site batch aggregates
- Highly flowable
- Extended workability
- Can be pumped or poured
- Chloride free

Specification

Where shown on the contract documents, all grouting of gap thicknesses typically 50 - 500 mm must be carried out with the non shrink cementitious aggregate filled pre-bagged grout, Conbextra TS, supplied by Fosroc. It shall provide a compressive strength of minimum 60 N/mm² at 28 days.

Description

Conbextra TS is supplied as a ready to use dry powder. The addition of a controlled amount of clean water will produce a fluid, aggregate filled grout for pouring or pumping into large voids between structural elements.

Conbextra TS is a blend of Portland cements, graded aggregates and additives. The low water requirement produces a fluid grout of high strength with good workability.

Technical support

Fosroc offers a comprehensive technical support service to specifiers, end users and contractors. It is also able to offer on-site technical assistance, an AutoCAD facility and dedicated specification assistance in locations all over the world.

Instructions for use

Preparation

The substrates must be free from oil, grease or any loosely adhering material. If concrete surfaces are defective or have laitence, they must be cut back to a sound base. Bolt holes and pockets must be blown clean of any dirt and debris.

Soak concrete substrates for a minimum of 2 hours continuously prior to placing the aggregate filled grout. Immediately prior to placing, all free water should be removed leaving the substrate in a surface dry condition.

Base plates

Must be clean and free from oil, grease and scale. Air pressure relief holes should be provided to allow venting of any isolate high spots.

Formwork

The unrestrained surface area of the grout must be kept to a minimum. Generally the gap width between the perimeter formwork and the plate edge should not exceed 150 mm on the pouring side and 50 mm on the opposite side. There should be no gap at the flank sides.

Mixing and Application

Water addition is 3.4 litres per 25 kg bag. Do not attempt part mixes. Up to four 20 kg bags of Conbextra TS may be mixed in a clean drum using a Fosroc Mixing Paddle MR3 fitted to a slow speed drill.

Pour the water into the drum and with the paddle in motion, slowly add the contents of Conbextra TS to the accurately measured water and mix continuously for 3 - 5 minutes ensuring a smooth consistency is achieved.

For larger quantities, a forced action grout mixer is recommended (eg. Creteangle). Always add powder to water. Continuous grout flow is essential and the necessary mixing equipment and labour must be made available to achieve this.

Pour or pump Conbextra TS from one point only to eliminate the entrapment of air. Conbextra TS is formulated to give extended workability but must be placed within 45 minutes of mixing. If pumping, Conbextra TS, use a piston pump (eg. Putzmeister PI3) with a minimum pump line diameter of 50 mm.

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Curing

All exposed areas should be cured using Concure RB90*†
Continuous application of water or with wet hessian.

Cleaning

Conbextra TS should be removed from all tools and equipment with clean water immediately after use.

Cured material can be removed only mechanically.

Sampling procedure

Cementitious grouts cannot be tested as concrete. Special sampling procedure are required refer to your local Fosroc office for further details.

Limitations

- At ambient temperatures above 35°C, the mixed grout should be placed immediately after mixing.
- Mixing should be employed with water below 20°C.

Hot weather working

Whilst the performance of Conbextra TS at elevated temperatures is assured, application under such conditions can sometimes be difficult.

It is therefore suggested that, for temperatures above 35°C, the following guidelines are used:

- Store unmixed materials in a cool environment (preferably temperature controlled), avoiding exposure to direct sunlight.
- Keep mixing and placing equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.
- Try to eliminate application in the middle of the day, and certainly avoid application in direct sunlight.
- Ensure that there are sufficient operatives available to complete application within the material's pot life.

Estimating

Supply

Conbextra TS : 25 kg packs

Yield

Conbextra TS : 11.6 litre/25 kg bag

Storage

When stored in warehouse conditions below 35°C, Conbextra TS will have a shelf life of 12 months.

Precautions

Health and safety

Conbextra TS contains cement powders which, when mixed with water or upon becoming damp, release alkalis which can be harmful to the skin.

During use, avoid inhalation of the dust and contact with the skin or eyes. Wear suitable protective clothing - eye protection, gloves and respiratory equipment (particularly in confined spaces).

The use of barrier creams to provide additional skin protection is also advised. In case of contact with the skin, rinse with plenty of clean water, then cleanse thoroughly with soap and water.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

For further information, please refer to the Product Material Safety Data Sheet for Conbextra TS.

Fire

Conbextra TS is non-flammable and thus presents no fire hazard.

* Denotes the trademark of Fosroc International Ltd.

† See separate data sheet



Important note

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard Conditions for the Supply of Goods and Service.

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