

Conbextra RG

Fast curing, non-shrink polymer cementitious grout

Uses

Conbextra RG fast curing grouting is used where it is essential to eliminate shrinkage in installation jobs which needs to be used in a short period of time. It can be used for manhole installation, pavement and walkway stone pitching works, grouting of a stanchion and machinery base plates and also fast repair jobs needs to be opened to pedestrian traffic immediately.

Advantages

- Easy application, very flowable form
- Fast curing, trafficable within 1 hour
- Non shrink, can be used in various applications
- Very good bonding properties to concrete
- Resistant to most of the soil based chemicals
- Does not contain metallic compounds
- Resistant to freeze and thaw cycles

Description

Conbextra RG cementitious grout is supplied as a ready to use dry powder. The addition of a controlled amount of clean water produces a flowing non-shrink, very fast setting grout for gap thickness between 10 to 60 mm.

Properties

Compressive Strength	
1 hour	16 N/mm ²
24 hours	35 N/mm ²
28 day	65 N/mm ²
Application Temperature	+5 °C - +35 °C
Pot Life	< 2,5 minutes
Strength gain	~5 minutes
Fresh wet density	2300 kg/m ³

Specification clauses

Performance specification

All grouting where shown on the drawing must be carried out with a pre-packaged cement based product which is fast setting.

It shall be mixed with clean water to the required consistency. The plastic grout must not bleed or segregate.

The compressive strength of the grout must exceed 16N/mm² at 1 hour and 65 N/mm² at 28 days.

The storage, handling and placement of the grout must be in strict accordance with the manufacturer's instructions.

Supplier specification

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

Instructions for use

Preparation

The substrate surface must be free from oil, grease or any loosely adherent material. If the concrete surface is defective or has laitance, it must be cut back to a sound base.

If there is a need for repairing jobs, use proper Renderoc repair mortars from Fosroc at least 3 days before application

Pre-soaking

For a minimum of 2 hours prior to grouting, the area of cleaned substrate should be flooded with fresh water. Immediately before grouting takes place, any free water should be removed. Particular care should be taken to blow out all bolt holes and pockets.

Mixing

For best results a mechanically powered grout mixer should be used. To enable the grouting operation to be carried out continuously, it is essential that sufficient mixing capacity and labour are available.

3,5 – 4,0 lt clean water required to be added to a 25 kg bag to achieve the desired consistency .

The selected water content should be accurately measured into the mixer. Conbextra RG should be slowly added and continuous mixing should take place at least 1 minute. This will ensure that the grout has a smooth even consistency.

Placing

To gain full benefit of the expansion process and flow, place the grout as soon as the mixing process is complete. Typically, at 25°C ambient temperature place the mixed grout within 2,5 minutes.

Conbextra RG can be placed in a minimum thickness of 10mm up to a maximum thickness of 60 mm in a single pour. For thicker sections, it is necessary to fill out Conbextra RG up to 30% by weight with well-graded 5-12 mm, silt free aggregate.

Curing

On completion of the grouting operation, exposed areas should be thoroughly cured. Suggest curing with Concure Fosroc curing agents.

Conbextra RG

Cleaning

Conbextra RG should be removed from tools and equipment with clean water immediately after use. Cured material can be removed mechanically.

High temperature working

It is suggested that, for temperatures above 35°C, the following guidelines are adopted as good working practice:

- Store unmixed material in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- Keep 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 during the hottest times of the day and in direct sunlight.
- Make sufficient material, plant and labour available to ensure that application is a continuous process.
- Water (below 20°C) should be used for mixing the grout prior to placement.

Limitations

Should be protected from direct sun light, adverse temperature conditions and frost during curing period.

Supply	
Conbextra RG	25 kg bags
Consumption	
Conbextra RG	2,10 kg/m ² /mm (Powder)

Note: Allowance should be made for wastage when estimating quantities required.

Storage

Conbextra RG has a shelf life of 12 months if kept in a dry store in sealed bags. If stored in high temperature and high humidity locations the shelf life will be reduced.

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.

Precautions

Health and safety

Conbextra RG is alkaline 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.

Fire

Conbextra RG is non-flammable.

Refer to Safety Data Sheet for detailed information

Additional Information

Fosroc manufactures a wide range of complementary Products which include :

- waterproofing membranes & water stops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialized flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete. Fosroc's 'Systematic Approach' to concrete repair features the following :
hand-placed repair mortars

- spray grade repair mortars
- fluid micro-concretes
- chemically resistant epoxy mortars
- anti-carbonation/anti-chloride protective coatings
- chemical and abrasion resistant coatings

For further information on any of the above, please consult your local Fosroc office - as below.

** Denotes the trademark of Fosroc International Limited*

† See separate data sheet



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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. All Fosroc datasheets are updated on a regular basis. It is the user's responsibility to obtain the latest version.

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