

# Conbextra EBG(M)

## Epoxy resin bearing grout

### Uses

An epoxy grout for use in situations where heavy dynamic or cyclic loads are encountered. The gap between a base plate and substrate will need to be filled in situations such as reciprocating machinery, testing equipment, crane rail and transporter rails, high speed turbines, bridge bearings, centrifuges and drop forges.

Conbextra EBG(M) is suitable for a wide gap range from 3mm to 50mm.

Also for use in conditions where chemical spillage may be encountered. Typical situations could be met in steel works, refineries, electroplating works and chemical plants.

### Advantages

- Low creep characteristics under sustained loading
- Better dynamic load response
- Non-shrink and hence ensures complete surface contact and bond
- High compressive, tensile and flexural strengths
- Fast, convenient installation with early strength gain
- Withstands a wide range of chemicals
- Suitable for narrow gaps of 3 to 50mm.

### Description

Conbextra EBG(M) is a two part, prepacked and prebatched thixotropic grout material which is particularly suitable for heavy load bearing situations.

### Technical support

Fosroc offers a technical support package to specifiers and contractors as well as technical advice from staff with practical experience in the industry

## Properties

Mixed density :  $1.75 \pm 0.05$  g/cc

The following results are typical for the hardened grout at 30°C

Colour of the mixed material	Grey	
Compressive strength (N/mm <sup>2</sup> ) (ASTM C 579)	1 day	>40
	7 days	>60
Tensile strength (N/mm <sup>2</sup> ) (BS 6319 part 7) at 7 days		>12
Flexural Strength (N/mm <sup>2</sup> ) (BS 6319 part 3) at 7 days		>20

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

### Chemical resistance

Conbextra EBG(M) is resistant to oil, grease, fuels, mild acids and alkalis, fresh and sea water. Consult Fosroc when exposure to solvent or concentrated chemicals is anticipated.

### Pot life

Ambient temperature affects the time for which large quantity of mixed bulk material will remain fluid.

Typical value in minutes at 30°C : 60

Conbextra EBG(M) will develop a temperature rise on mixing. Its extent will be a function of the volume to surface ratio, the ambient temperature as well as the mass and thermal conductivity of the surrounding materials. Contact Fosroc for specific data.

## Application instructions

### Surface Preparation

#### Concrete Surfaces

All contact surface must be free from oil, grease, free standing water or any loosely adherent material. Concrete surfaces should be cut back to a sound base, if needed

All dust must be removed and bolt holes or fixing pockets blown clean of any dirt or debris.

#### Steel surfaces

All steel surfaces should be shot blasted free of rust and flaky mill scale. Cleaned surfaces may be protected by the application of Nitoprime 28.

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## Formwork

The formwork should be constructed to be leakproof. Loss of grout material placed, but not hardened, will result in incomplete filling of the gap.

## Mixing

Pour all the contents of the base and hardener packs into a suitable container. Mix using a slow speed power mixer until homogenous.

## Placing

The mixed grout should be poured or pumped under pressure steadily from one side only to eliminate the entrapment of air.

Continuous grout flow is essential. Sufficient grout must be available prior to starting grouting operation. Time gap between the successive stages of grouting should be monitored to avoid joints.

## Flow characteristics

The maximum distance of flow is governed by the gap thickness, the gravity head /pressure and ambient temperature. Conbextra EBG(M) is a thixotropic grout and requires to be pumped/poured under gravity, for filling the gaps.

## Cleaning

All tools and equipment should be cleaned immediately after use with Nitoflor Sol. Spillages should be absorbed with sand or sawdust and disposed in accordance with local regulations.

## Limitations

### Temperature

#### During application

For Conbextra EBG(M), at temperatures below 20 deg.C the cure rate may be slow, but will go to completion provided the temperature remains above 5°C.

### In service

The cured grout, which is completely resistant to frost and sub-zero temperatures, is suitable for use upto 60°C.

## Estimating

## Supply

Conbextra EBG(M) is supplied in 3litre ( 5.4 kg) packs containing base and hardener.

## Shelf life

Conbextra EBG(M) has a shelf life of 12 months in unopened container under normal warehouse condition.

## Precautions

### Health and Safety

Conbextra EBG(M) contains resins which may cause sensitisation by skin contact. Avoid contact with skin and eyes and inhalation of vapour. Wear suitable protective clothing, gloves and eye/face protection. Barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream, followed by soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical attention immediately - do not induce vomiting.

### Fire

Nitoflor Sol is flammable. In the event of fire extinguish with Carbon dioxide or foam.

Nitoflor Sol : Flammable liquid

**Flash Point** : 33°C

Keep away from sources of ignition - no smoking. Wear suitable protective clothing, gloves and eye/face protection. Use only in well ventilated area.

### Additional information

The Fosroc range of associated products include high strength cementitious, epoxy grout, polyester resin based mortar for rapid presetting of steel shims to level or for direct bedding of small base plates; Resin Anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available a range of products for use in construction; viz., admixtures, curing compounds, release agents, flooring systems and repair mortars.

Separate datasheets are available on these products.

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