



Conbextra® EP65(M)

Epoxy resin free flow grout

Uses

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

Conbextra EP65(M) is specially suitable for a wide gap range from 5mm to 65mm.

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
- Resistant to repetitive dynamic loads
- 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 and large gaps

Description

Conbextra EP65(M) is a free flow epoxy grout which is suitable for narrow & large gaps.

Technical support

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

Properties

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

Density (kg/m³)	1950-2050
Compressive strength (N/mm²) (BS 6319 Part 2 1983)	
1 day	70
3 days	80
7 days	90
Tensile strength (N/mm²) (BS 6319 Part 7 1983)	
7 days	15
Flexural strength (N/mm²) (BS 6319 Part 3 1983)	
7 days	29

Chemical resistance

Conbextra EP65(M) is resistant to oil, grease, fats, most chemicals, 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 bulk material will remain fluid.

Typical values in minutes are :

	20°C	30°C	40°C
Conbextra EP65(M)	60	45	30

Conbextra EP65(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

Preparation

Foundation surface

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.

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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.

Formwork

The formwork should be constructed to be leakproof as Conbextra EP65(M) is a free flowing grout. Loss of grout once the material is placed, but not hardened, will result in incomplete filling of the gap.

For free flow grout conditions it is essential to provide a hydrostatic head of grout. To achieve this a feeding hopper system should be used.

Mixing

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

Pour all the resultant liquid into a container with a capacity of 15 - 25 litres. Add all the filler provided. Mix using a slow speed power mixer for 2 minutes or until a uniform colour is achieved in the grout.

Placing

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

Continuous grout flow is essential. Sufficient grout must be available prior to starting.

Time taken to pour a batch should be regulated to the time taken to prepare the next batch.

Flow characteristics

The maximum distance of flow is governed by the gap thickness, the head of grout applied and ambient temperature. Conbextra EP65(M) is a free flow grout and the minimum gap thickness required is 5mm.

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 EP65(M), at temperatures below 20°C the cure rate may be slow, but will go to completion provided the temperature remains above 5°C.

In service

The cured grouts, which are completely resistant to frost and sub-zero temperatures, are suitable for use upto 50°C.

Estimating

Supply

Conbextra EP65(M) is supplied in 8 litre packs containing base, hardener and filler.

Shelf life

Conbextra EP65(M) has a shelf life of 12 months if kept in dry conditions at 30°C.

Precautions

Health and Safety

Conbextra EP65(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.



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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

Fosroc manufactures a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete. This includes repair mortars, fluid microconcretes, chemical resistant epoxy mortars in addition to comprehensive package of protective coatings. In addition, a wide range of complementary products are available. This includes joint sealants, waterproofing membranes, grouts and anchors and specialised flooring materials.

*Separate data sheets are available on these products.



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Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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