



Conbextra® EP10(M)

Moisture insensitive epoxy resin injection material

Uses

Conbextra EP10(M) is a two part epoxy resin system for grouting gaps ranging from 0.25mm to 9mm. It is an all liquid system consisting of a base and hardener.

Advantages

- Moisture insensitive
- Low creep characteristics
- High compressive, tensile and flexural strengths
- Fast, convenient pumping with early strength gain
- Withstands a wide range of chemicals

Technical support

Fosroc offers a comprehensive range of high performance, high quality concrete repair and construction products. In addition, Fosroc offers technical support service to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the country.

Properties

The following results are typical for the hardener grout at 30 deg.C.

Test method	Typical result
Density (Kg/m ³)	1060
Compressive strength (N/mm ²) ASTM D695	60
Tensile strength (N/mm ²) C307 - 94	20 ASTM
Flexural strength (N/mm ²) BS6319 Part 4	45

Chemical resistance

Conbextra EP10(M) is resistant to oil, grease, fats, most chemicals, mild acids and alkalis, fresh and sea water.

Pot life

Ambient temperature affects the time for which bulk material will remain fluid.

Typical values in minutes are :

	20°C	30°C
Conbextra EP10(M)	60	30

Exotherm

All epoxy systems 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 on each product.

Application instructions

Prepare the surface and seal the cracks with a sealing compound which can also be used for bonding injection nipples. Depending on the crack width and depth the distance between nipples should be 200 to 500 mm.

Mixing and placing

Pour all the contents of the hardener pack into the base container. Mix using a slow speed power mixer for 60 seconds. Use a suitable pressure pump for injecting the material into cracks. After 24 hours remove the nipples and seal the holes or voids with more sealing the compound and allow to cure.

For filling cracks of more than 10mm and using as an epoxy mortar

Conbextra EP10(M) has to be mixed with clean graded quartz sand from 1:3 to 1:6 parts by weight depending on the consistency required. Mixing can be done with a paddle fitted to a drilling machine.

Typical properties are as follows :

Compressive strength (N/mm²) @ 7 days	:	50
Tensile strength (N/mm²)	:	3 - 4
Flexural strength (N/mm²)	:	10

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.

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Limitations

Temperature

During application

Grouting may be carried out without special precautions at ambient temperatures from 5° to 35°C.

In service

The cured material is suitable for use from 0°C.

Estimating

Packaging

Conbextra EP10(M) : 1.5 litre packs

Storage

All Conbextra EP10(M) products has a shelf life of 12 months in unopened container under normal warehouse conditions.

Precautions

Health and Safety

Conbextra EP10(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 even of fire extinguish with CO₂ or foam.

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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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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