

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.

Specially suitable for a wide gap range above 10mm - 120mm. It can also be used when high ambient temperatures are encountered.

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 temperature rise during cure (<95 °F)
- 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
- Impervious to oil and chemical attack
- Strong bond to metal and concrete
- Suitable for narrow and large gaps

Description

Conbextra EP120LE is a low exotherm material which is particularly suitable where long working time is needed and also 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)	2475	
Compressive strength (N/mm²)	7 days	120
Tensile strength (N/mm²)	7 days	17
Flexural strength (N/mm²)	7 days	33

Chemical resistance

Conbextra EP120LE 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 EP120LE	120	90	50

Conbextra EP120LE 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.

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

Conbextra® EP120LE

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 EP120LE 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 EP120LE 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 EP120LE, 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

Packaging

Conbextra EP120LE is supplied in 16kg packs containing base, hardener and filler.

Yield

6.4 litres.

Shelf life

Conbextra EP120LE has a shelf life of 12 months if kept in dry conditions at 30°C.



Conbextra® EP120LE

Precautions

Health and Safety instructions

Conbextra EP120LE 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.

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

Fire

Nitoflor Sol is flammable. In the event of fire extinguish with

Carbon dioxide or foam.

Nitoflor Sol : Flammable liquid

Flash Point : 33°C

Additional information

The Fosroc range of associated products includes 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 :

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