

# Conbextra EP300

## Low Exotherm, Epoxy Resin, Free Flow Grout

### Uses

Suitable for use where heavy or dynamic loads are encountered. Particularly well suited to applications where long working time and/or low exotherm properties are required

- Grouting under reciprocating or rotating equipment
- Heavy crane/transporter rails
- High speed turbines and centrifuges
- Grouting over long distances or in thick sections
- All applications under conditions of high ambient temperature

### 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.
- Withstands a wide range of chemicals.

### Description

Conbextra EP300 is a low exotherm material which is particularly suitable where; long working time is needed; for large gaps (up to 300 mm) or for grouting at high ambient temperatures (up to 55°C). Conbextra EP300 is a three component system consisting of base resin, liquid hardener and specially graded inert fillers.

### Technical Support

Fosroc offers a comprehensive range of high quality, high performance construction products. In addition, Fosroc offers a worldwide technical support and on-site service to specifiers, end-users and contractors.

### Properties

	23°C	40°C	50°C
Compressive strength			
BS6316 Part2 1983			
3 days	75 N/mm <sup>2</sup>		
7 days	82 N/mm <sup>2</sup>	100N/mm2	110N/mm2
Flexural strength			
BS6319 Part 3 1983			
7days		30 N/mm <sup>2</sup>	30 N/mm <sup>2</sup>
Tensile strength			
BS6319 Part 3 1983			
7days		11 N/mm2	12.5N/mm <sup>2</sup>
Density		1950 kg/m <sup>3</sup>	
Pot life :		50 mins @ 40°C	
		90 mins @ 30°C	
		240 mins @ 20°C	
Chemical resistance		Oils, grease, fats, most chemicals, mild acids and alkalis, fresh and sea water	

Note: Consult local Fosroc office when exposure to solvents or concentrated chemicals is expected

### Specification Clauses

#### Supplier specification

All epoxy resin grouting where shown on the contract documents, shall be carried out using Conbextra EP300 manufactured by Fosroc and used in accordance with the manufacturer's current data sheet.

#### Performance specification

All epoxy resin grouting where shown on the contract documents must be carried out with a factory packed product. The hardened grout must have strengths exceeding:

Compressive strength	:	80 N/mm <sup>2</sup> at 7 days
Tensile strength	:	10 N/mm <sup>2</sup> at 7 days
Flexural strength	:	27 N/mm <sup>2</sup> at 7 days

# Conbextra EP300

---

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

## Instructions for Use

### Preparation

#### *Underplate grouting*

The unrestrained surface area of the grout must be kept to a minimum. Generally, the gap between the perimeter formwork and the plate edge should not exceed 75 mm on the pouring side and 25 mm on the opposite side. Formwork on the flank sides should be kept tight to the plate edge. Air pressure relief holes should be provided to allow venting of any isolated high spots.

#### *Formwork*

The formwork should be constructed to be leak proof as Conbextra EP300 is a free flow grout. This can be achieved by using foam rubber strip or mastic sealant beneath the constructed formwork and between joints. For free flow grout conditions, it is essential to provide a hydrostatic head of grout. To achieve this a feeding hopper should be used - please consult your local Fosroc office for more details.

#### *Foundation surface*

This 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. Bolt holes or fixing pockets must be blown clean of any dirt or debris.

#### *Base plate*

If delay is likely before placing steel base plates, it is recommended that the underside and edges are coated with Nitoprime 25 to prevent rust formation and ensure bonding with the Conbextra EP300 grout. All metal surfaces should be cleaned to a bright finish in accordance with Swedish Standard SA 2½ or equal. Nitoprime 25 can be applied directly onto newly cleaned steel surfaces even if they are damp.

### Mixing

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

Pour all the resultant liquid into a container with a capacity of 20 - 25 litres. Add all the filler provided and mix using a slow speed power mixer for two 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. The 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 the ambient temperature.

### Cleaning

All tools and equipment should be cleaned immediately after use with Fosroc Solvent 102.

### Limitations

Grouts should not be placed in any unrestrained situation, i.e. base plate plinths, etc. Failure to comply may lead to crack development in the grout.

The cured grout, which is resistant to frost and sub-zero temperatures, is most suited for ambient temperatures in the range of 25°C to 55°C.

### Estimating

#### Supply

---

Conbextra EP300	:	10 litre pack
Nitoprime 25	:	1 and 4 litre pack
Fosroc Solvent 102	:	5 and 20 litre packs

---

#### Coverage

---

Nitoprime 25	:	4.0 to 5.0 m <sup>2</sup> /litre
--------------	---	----------------------------------

---

### Storage

All Conbextra EP300 has a shelf life of 12 months if kept in dry conditions at 20°C. If stored at high temperatures the shelf life will be reduced.



# Conbextra EP300

---

## .Precautions

### Health and Safety

Conbextra EP300 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 advice. If swallowed seek medical attention immediately - do not induce vomiting.

### Fire

Nitoprime 25 and Fosroc Solvent 102 are flammable.

### Flash points

Nitoprime 25	:	39°C
Fosroc Solvent 102	:	33°C

For additional information see relevant Material Safety Data Sheet.

## Additional Information

Fosroc manufactures a wide range of complementary products which include :

- waterproofing membranes & waterstops
- joint sealants & filler boards
- cementitious & epoxy grouts
- specialised flooring materials

Fosroc additionally offers a comprehensive package of products specifically designed for the repair and refurbishment of damaged concrete.



## Fosroc Sdn. Bhd.

No 8 Jalan Trompet, 33/8  
Seksyen 33, 40400 Shah Alam  
Selangor, Malaysia

### Branch Office:

215B Argyll Rd, 10050 Penang  
Malaysia

[www.fosroc.com](http://www.fosroc.com)

### 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 Services, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification of 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 of information given by it.

**telephone:**  
+60 3 5191 5660

**fax:**  
+60 3 5191 6960

**email:**  
malaysia@fosroc.com

+60 4 228 7464

+60 4 228 0901



2413-2005-AQ-SIN-  
RVA