



# Nitoflor® EUW(F)

## Flow applied moisture insensitive fillerised epoxy material

### Uses

- Nitoflor EUW(F) provides an extremely high strength epoxy mortar with excellent mechanical properties and exceptional resistance to the surface mechanical wear and attack from chemical spillages. The finished surface is highly impervious.
- Ideally suited for heavy engineering plants, chemical handling and process areas, steel works and particularly underwater application areas.
- Nitoflor EUW(F) can be used to fill the gaps and also as floor level toppings. The system is highly effective for application on concrete even when the moisture content is higher than those normally permitted for epoxy application.

### Advantages

- Moisture insensitive. Can be applied in the presence of moisture.
- Low creep characteristics
- High compressive strength
- Fast, easy application with early strength gain
- Withstands a wide range of chemicals

### Description

Nitoflor EUW(F) is a three part, low viscous epoxy resin system consisting of a moisture insensitive base and hardener and graded fillers. The system can be applied in the range of 3mm to 5mm thickness and is available in dark brown shade only.

### Technical support

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 mixed material

Test method	Typical result	
Mixed density	1.83 g/cc	
Pot life @ 30°C	25 min.	
Compressive strength ( N/mm <sup>2</sup> ) (BS 6319)	1D	7D
	70	90

### Chemical resistance

Nitoflor EUW(F) is resistant to oil, grease, fats, most chemicals, mild acids and alkalis, fresh and sea water.

### 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

#### Priming

Prepared substrates to be treated with Nitoflor EUW(F), should be primed with Nitoprime XG.

Nitoprime XG should be mixed in the proportions supplied by adding the entire contents of hardener can to the base can. Once mixed the Nitoprime XG should be immediately

applied in a thin, continuous film using stiff brushes or rollers. Over application and puddles should be avoided.

Porous floors may require two coats of Nitoprime XG.

Nitoprime XG should be allowed to become tack free prior to application of Nitoflor EUW(F). (Reference maximum overcoat time, product properties ).

#### Mixing

It is important that Nitoflor EUW(F) is mixed correctly.

Suitable mixing equipment must be used, such equipment being defined as either a heavy duty variable speed drill and Mixing Paddle, or forced action mixers such as Creteangle or similar.

Empty the entire contents of the resin hardener component into the can containing the resin base component and mix until homogeneous. Place the mixed resin components into the mixing vessel and while mixing slowly add the fillers. Mixing of all components shall continue for a further 3-5 minutes, until such time that a homogenous mix is achieved.

#### Application

The mixed Nitoflor EUW(F) should be spread to uniform thickness on the prepared surface using either a squeegee or a notched trowel. The subsequent use of a spiked roller, eliminates air entrapment.

The material must be applied within the pot life after mixing (see "Properties"). After this time unused material should be discarded.

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## Expansion joints

Expansion joints in the existing substrate should be continued through the Nitoflor EUW(F) and any subsequent topping, and filled to the required level with a suitable sealant - contact the local Fosroc office for further details

## 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 HSE regulations.

## Estimating

### Packaging

Nitoflor EUW(F)	: 9 litre pack
Nitoprime XG	: 1 litre pack
Nitoflor Sol	: 20 litre pack

### Coverage

Nitoflor EUW(F)	: 3m <sup>2</sup> at 3mm thick / pack
Nitoprime XG	: 5.2 - 6.2 m <sup>2</sup> per litre

## Storage

Nitoflor EUW(F) has a shelf life of 12 months in unopened containers under normal warehouse conditions.

## Precautions

### Health and Safety instructions

Nitoflor EUW(F) contains resins which may cause sensitisation by skin contact. Contact with skin and eyes and inhalation of

vapour shall be avoided. Suitable protective clothing, gloves and eye/face protection shall be worn. Should accidental skin contact occur, it shall be removed immediately with a resin removing cream, followed by washing with soap and water. Solvent should not be used.

In case of contact with eyes, it shall be rinsed immediately with plenty of clean water and immediate medical attention shall be sought.

### Fire

Nitoflor Sol is flammable. In the event of fire extinguish with CO<sub>2</sub> or foam. Do not use waterjet.

### Flash point : 33°C

Should be kept away from sources of ignition. Smoking is prohibited during handling / application of the product. Suitable protective clothing, gloves and eye/face protection should be worn. Use in well ventilated areas is suggested.

## 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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