

FEBSET NF

High Strength Non-Flow Epoxy Bedding and Repair Mortar

Description of Product

FEBSET NF epoxy resin bedding compound, has been designed for use where a non slumping type of epoxy bedding compound is required. It is a two pack, fine aggregate filled, fast curing material, ideal for a variety of bedding, gap filling and concrete repair applications.

FEBSET NF is a stiff but easily workable compound that can be applied by either trowel, spatula or knife. It cures to give high mechanical properties typical of epoxy compounds. It is resistant to oils, greases, petroleum, salts, many acids and alkalis and most commonly met corrosive media. It does not shrink on curing, and is designed to be used when cured from 5°C to 60°C. Its impact resistance, and mechanical strength is significantly greater than that of concrete.

ASTM C881: Type 1, Grade 3, Classes B&C.
BS 6319:Pt.4 - Bond strength - Slant shear method.
BS 6319:Pt.1 - Structural fixing - Tensile loading test method.

Fields of Application

For surface repairs of fine cracks and spalls. For gap filling, grouting, bedding fixtures etc. For repairs to arrises and edge pieces without the use of formwork. Wherever a thixotropic epoxy mortar is required.

- Repairing vertical honeycomb concrete in abutments or overhead repairs on soffits.
- Fixing slip bricks to concrete.
- Securing bolts into walls.
- As a gap filling adhesive.
- Filling bolt pockets.
- Bedding tiles.
- Repairing concrete posts in situ.

Features and Benefits

- High strength.
- Non-slump.
- Strong adhesion.
- Chemical resistant.
- Impact resistant.
- Non shrink.
- Epoxy based.
- Trowels to a smooth finish.
- Easy to use.
- Supplied in pre-weighed units.
- No bonding or primer required.

Technical Data/Typical Properties

Composition	Two-component epoxy based mortar filled with selected fine aggregates	
Colour	Pale grey	
Specific gravity	@ 20°C	1.80
Flashpoint	200°C	
Compressive strength	@ 7 days	50N/mm ²
Tensile strength	@ 7 days	6.5N/mm ²
Flexural strength	@ 7 days	50N/mm ²
Full cure 25°C	3 to 5 days	
Bond strength	Greater than that of the concrete	
Pot life	@ 25°C	1 hour
	@ 40°C	30 mins.
Cure rates	@ 25°C	5 hours
	@ 40°C	2 hours
Full cure	@ 25°C	5 days
	@ 40°C	3 days

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Chemical resistance	<i>FEBSET NF has resistance to the following: most aqueous systems, raw sewage, urine, fresh water, sea water, diluted and concentrated alkalis, diluted acids, mineral, vegetable and animal fats and ammonia.</i>
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Application Procedure

Preparation of Substrate

All loose particles, laitance, dust and grease etc. must be removed prior to application of FEBSET NF.

Mixing

The 3Kg pack has been designed to be readily mixable by trowel. Where more than one pack or a larger pack is to be mixed, this would require machine mixing. A mixall portable mixer (HD5 model) is suitable for this.

Application

Knife or trowel FEBSET NF to the required level using the minimum of solvent on the trowel to aid workability. The finished surface may be finished smooth by use of a paint brush dipped in FEB CLEANING SOLVENT. Where a very deep recess is to be filled, it may be necessary to build up in layers.

Coverage

A 3kg is sufficient to cover 1.1m² at 1.5mm thickness.

Curing

FEBSET NF will cure at temperatures as low as 5°C, although at low temperatures cure is retarded.

Cleaning

Tools must be cleaned immediately after use with FEB CLEANING SOLVENT or other suitable solvents.

Packaging

FEBSET NF is supplied in 3 & 10Kg units.

Storage

Store in unopened containers in cool, dry conditions at ambient temperatures between 5 - 35°C (ideally 15 - 20°C).

Shelf Life

2 years if stored in accordance with manufacturer's instructions.

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FEBSET NF Degussa Construction Chemicals UK Version 3

Health and Safety

*For full information on Health and Safety matters regarding this product the relevant Health and Safety Data Sheet should be consulted.

The following general comments apply to all products.

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs, (which may also be tainted with vapour until the product is fully cured and dried). Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Keep away from children and animals. Reseal containers after use.

Solvent Based Products

Use in well ventilated areas; avoid inhaling. Suitable respiratory equipment may be needed, eg when spraying. Can cause skin, eye irritation. Wear protective eye shields and gloves during use. Do not smoke or allow sparks or naked lights when stored or in use.

Powder Products

Should be handled to minimise dust formation; use light mask if excessive dust unavoidable. Cement powders when wet or moistened can cause burns to skin and eyes which should be protected during use.

Resin Products

Can cause irritation, dermatitis or allergic reaction. Use protective equipment particularly for skin and eyes. Use only in well ventilated areas.

Spillage

Chemical products can cause damage; clean spillage immediately.

Disclaimer:

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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