

FEBSET NF

High Strength Non-Flow Epoxy Bedding and Repair Mortar

Description of Product

FEBSET NF is a non slump epoxy resin bedding compound. It is a two component, 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 is non shrink and 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 encountered corrosive media. It's impact resistance and mechanical strength is significantly greater than that of concrete.

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.
- Suitable for service temperature 5°C - 60°C.

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 |
| 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> | |



The Chemical Company

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 (MR30 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 3 kg pack will yield 1.66 litres of mortar and will cover 1.1m² at 1.5mm thickness.

A 10 kg pack will yield 5.55 litres of mortar and will cover 3.7m² 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 kg & 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.

BASF Construction Chemicals (UK) Ltd

PO Box 4

Earl Road

Cheadle Hulme

Cheadle

Cheshire

SK8 6QG

Tel: +44 (0) 161 485 6222

Fax +44 (0) 161 488 5220

www.basf-cc.co.uk

FEBSET NF BASF Construction Chemicals (UK) Ltd Version 4 – July 2007

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.

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.