

# Febox MP

## Heavy Duty Epoxy Mortar Kit

High Impact Epoxy Patching Mortar for repairs to concrete, stone, screeds, brick & steel.

- For overnight repairs
- High abrasion resistance
- Trowels to a feather edge
- High chemical and solvent resistance

Colour	Product Code	Pack Size	Box Qty
Grey	FBBOXMP2	2KG	1
	FBBOXMP5	5KG	1



## Concrete Repair & Speciality Mortars

### Product Description

FEBOX MP is a general purpose two-part epoxy patching mortar which can affect 24 hour (overnight) repairs to concrete. Strengths in excess of those of 28 day old concrete can be gained within 24 hours. Mainly intended for horizontal surfaces. FEBOX MP bonds tenaciously to concrete, masonry and non-vibrating steel, allowing a hard durable repair to be made without delay.

### Typical Uses

- Repairing concrete floors.
- Filling cracks in concrete and masonry.
- Repairing damaged concrete pipes and kerbs.
- As a high strength structural gap filler.
- Repairing broken edges on steps.
- Levelling worn floors taking constant traffic.
- Repairing spalled roads and runways.
- Repairing and joining pre-cast concrete.
- Covering concrete or bedding tiles subject to corrosive conditions.

### Features & Benefits

- High abrasive resistance.
- High chemical and solvent resistance.
- Excellent adhesion to all sound surfaces.
- Bonds to clean, non-vibrating steel.
- Can be used indoors or outdoors.
- Greater 28 day strength than concrete.
- Can be trowelled to a feather edge.
- Trowels to a smooth finish.

### Instructions for Use

#### Preparation of substrate

The substrate must be of sound quality and of adequate strength to receive the FEBOX MP. Concrete substrates must be free from dirt, grease, oil, fats or any other contaminant. To ensure a sound surface, all laitance should be removed by mechanical preparation or grit blasting. Remove

dust and thoroughly clean off. New concrete should be at least 28 days old. Metal - all rust, oil and grease etc. must be removed to leave the metal thoroughly clean and unoxidised.

#### Mixing

Each pack contains the correct proportions of base and reactor - no attempt should be made to mix only a portion of the pack.

Single packs can be thoroughly mixed by trowel on a non-absorbent board - for larger quantities a suitable mechanical mixer must be used.

#### Application

Once mixed, FEBOX MP can be trowelled directly onto the surface without the need for priming (except on very porous or very smooth substrates where EPOXY PRIMER should first be applied) and then compact into place. Trowel to finish required. Use all mixed material within the pot life period.

#### Curing

Varies with temperatures and thickness of application. At normal temperatures a 6 mm thick layer initially sets after approximately 8 hours. Cure is substantially complete after 24 hours, but full chemical resistance is not obtained until after 7 days

#### Coverage

5 kilos will cover approximately 0.8 m<sup>2</sup> at an average thickness of 3 mm.

#### Storage

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

#### Shelf Life

12 months if stored in accordance with manufacturer's instructions.

### Performance Data

Density (mixed)	1800kg/m <sup>3</sup>
Application/curing temperatures	+4 to +40°C
Service Temperatures	-20 to +50°C
Compressive strength: (BS6319 prt2)	50N/mm <sup>2</sup> @ 24 hours (20°C)/ 85N/mm <sup>2</sup> @ 7 days (20°C)
Tensile Strength: (BS6319 prt7)	8N/mm <sup>2</sup> @ 24 hours (20°C)/ 12N/mm <sup>2</sup> @ 7 days
Flexural Strength (BS6319:3)	30N/mm <sup>2</sup> @ 7 days (20°C)
Abrasion resistance	High
Adhesive strength to concrete	Greater than the internal strength of concrete itself
Pot Life	The pot life of this product is 45 minutes at 20°C /70 mins at 10°C
Cure Time	Initial: 8 hours Final: 24 hours @ 20°C; longer at lower temperatures. Do not apply below 4°C
Cleaning	Clean tools etc with finishing solvent or xylene immediately after use
Chemical resistance	Will protect concrete from attack from most acids, alkalis, mineral/ vegetable oils, Caustic solutions, sea water, grease etc