

# Febpatch 90

## Concrete Floor Rapid Repair Mortar

- Open to traffic within 90 minutes
- Minimises disruption in traffic and work areas
- Excellent adhesion
- Freeze-thaw and icing salts resistant

Colour	Product Code	Pack Size	Box Qty
Grey	FBPATCH90	25KG	1



## Concrete Repair & Speciality Mortars

### Product Description

FEBPATCH 90 is a structural strength fast setting/ high early strength bedding and general repair mortar, which is trafficable after only 90 minutes at 15°C to 20°C.

### Typical Uses

- For use in any situation where the minimum of delay and work disruption is of utmost importance.
- Patching floors or roads.
- Repair of factory or workshop floors.
- Repair to concrete, including marine environments.
- Bedding or re-levelling manhole frames, road furniture, kerbs, gratings and hydrants.
- Setting posts or balustrades.

### Features & Benefits

The advantages over conventional repair materials are:

- Simple and easy to use for many types of repairs.
- Saves time and labour.
- High early strength.
- When used to repair concrete pavings, FEBPATCH 90 will start to harden in 10 to 15 minutes and usually permits re-opening to traffic only 90 minutes after laying at 15°C to 20°C.
- Pre-blended, ready-to-use. Only requires the addition of water.
- Excellent adhesion to most building surfaces.
- Highly durable. Excellent resistance to de-icing salts.
- More economic and simpler to use than epoxies or polyesters.

### Instructions for Use

#### Preparation of Substrate

It is essential the surface of the concrete substrate to which the FEBPATCH 90 is to be applied should be thoroughly sound and uncontaminated by dirt, oil or grease. Preparation should expose a sound, reasonably level, lightly textured surface, which

must then be cleaned. Recommended methods of preparation are scabbling; bush hammering or grit blasting.

The minimum thickness of repairs normally should not be less than 10 mm, maximum 75 mm. The boundaries of the repair must be saw cut. Under no circumstances should "feather edging" be used. It is also essential the minimum thickness be measured from the "peaks" and not the "troughs" of any scabbled concrete. Where reinforcement is exposed, all scale should be removed and the bar thoroughly cleaned by wire brushing or sand blasting.

#### Mixing:

Mix by hand or machine in the ratio of 25kg powder to 3 litres of water to achieve a stiff slump free mortar. DO NOT USE EXCESS WATER AS THIS WILL CONSIDERABLY REDUCE STRENGTH. Minimum mixing time is 1½ minutes.

#### Application

Apply material by trowel to pre-wetted area within 4 minutes of mixing and push well into position

using a float. Suitable for repairs from 75mm down to 10mm in one application. Deeper applications may be achieved by applying further layers once initial layer is set, or by bulking out this product with up to 30% hard stone clean aggregate (NOTE: this will slow down strength gain).

Clean tools and equipment with water immediately after use.

#### Coverage

25 Kg of FEBPATCH 90, combined with the correct amount of clean drinking water will yield approximately 0.0125 m² (12.5 litres) and finishing (approximately 50kg/m² @25mm depth).

#### Storage

Store in cool, dry conditions.

#### Shelf Life

6 months from date of manufacture when unopened and stored in accordance with the manufacturer's instructions.

### Performance Data

Thickness (min and max)	10mm-75mm
Workability @ 20°C	approx 5-12 minutes
Setting time (initial) @ 20°C	approx 15 minutes
Final set @ 20°C (trafficable)	approx 90 minutes
Minimum application temperature	+5°C
Yield per 25kg (mixed as directed)	approx 12.5ltrs
Density (wet)	2200kg/m³
Shrinkage	Minimal (shrinkage compensated grade)

#### Typical strengths (BS1881) @ 20°C:

TIME AFTER PLACEMENT	COMPRESSIVE STRENGTH (N/mm²)	TENSILE STRENGTH (N/mm²)
1 hour	12	-
2 hours	21	-
24 hours	28	1.82
7 days	-	2.46
28 days	>50	3.51

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