

# Expanmortar BB<sup>\*</sup>

High strength epoxy resin bearing mortar

## Uses

Expanmortar BB is especially designed for the formation of bridge bearing leveling plinths or underlayment between pre-cast concrete panels, can also be used as a high strength horizontal repair mortar for structural concrete repair. Typical applications would include, but not be limited to, the following:

- Leveling of bridge bearing pad
- Leveling of uneven surface of concrete members
- Underlayment between precast concrete members
- Small or large concrete repair, where high early strength is required
- Single layer, high build applications
- Excellent working time

## Advantages

- High early strength, speeds construction operation
- Maintains high level of impact and abrasion resistance.
- Cured material is completely impermeable to water
- User friendly - specifically developed to provide an easy-to-apply product, suitable for local conditions.
- Pre-weight laboratory controlled material, ensure consistency and eliminate source of operative errors
- Can be use on damp surface

## Description

Expanmortar BB is a specially selected solvent free epoxy system together with high quality silica aggregates, is supplied as three pack material in pre-weighted quantities ready for on-site mix and use, when components are mixed together the system cures to form a strong and durable mortar.

## Properties

The following typical results were obtained at 25 °C

Test Method	Results	Test Method
Compressive Strength	90 N/mm <sup>2</sup>	BS 6319 Pt. 2
Flexural Strength	25 N/mm <sup>2</sup>	BS 6319 Pt. 3
Tensile Strength	16 N/mm <sup>2</sup>	BS 6319 Pt. 7
Initial set	60 minutes @ 30 °C	
Final set	120 minutes @ 30 °C	

## Surface Preparation

All surfaces should be free from grease, oil chemical contamination, dust laitance and loose concrete must be removed by scarifying. The surface must clean and dust free prior to the application of Expanmortar BB.

## Priming

Priming is not normally required in a pure load-bearing situation, however, if a good bond is essential particularly in a vertical repair situation, the properly prepared concrete surface shall be prime with Expanprime 25 and the Expanmortar BB applied to the primer whilst it is still tacky.

## Mixing

The Expanmortar BB base and hardener components should be thoroughly mixed in the mixing container for 2 minutes and then add filler slowly into the mixed resin and further mix for 2 – 3 minutes to get homogeneous material.

## Trowelling

The mixed material is applied to the surface with a steel trowel in approximately 10 – 15 mm per layer, taking care that the layer is well compacted.

Expanmortar BB should not be applied in layers exceeding overall thickness of 50 mm (2 inches), where greater thickness is required, subsequent layers can be built up 18 hours after application of the preceding layer.

## Cleaning

Un-cured material can be removed from tools and mixing equipment with Fospak Solvent 102

## Estimating

### Supply

Expanmortar BB : 20 kg Pack

### Coverage

Yield and coverage rate listed below are approximate, and will be wholly dependent upon the general substrate condition. It is recommended, that a site trials over a typical area are conducted to determine the likely usage/coverage rates for a particular substrate.

Expanmortar BB : 1.0 m<sup>2</sup> at 10 mm thick  
(approximately 10 liters  
per 20 kg pack)

### Limitations

- Expanmortar BB should not be used when the ambient temperature is below 5°C and falling.
- Expanmortar BB should not be part mixed.
- Expanmortar BB should not be exposed to running water either during application or prior to final set.

### Storage

### Shelf life

Expanmortar BB has a shelf life of 12 months if kept in a dry environment, in its original packing. If stored in conditions of high temperature and/or humidity, the shelf life may be reduced to as little as 4 months.

## Precautions

### Health and safety

Expanmortar BB base and hardener contains resin which, can be harmful to the skin, avoid contact with skin.

During use, avoid inhalation of vapors and contact with the skin or eyes. Wear suitable protective clothing - eye protection, gloves and respiratory equipment (particularly in confined spaces).

The use of barrier creams to provide additional skin protection is also advised. In case of contact with the skin, rinse with plenty of clean water, then cleanse thoroughly with soap and water.

In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

### Fire

Expanmortar BB, is non-flammable and thus presents no fire hazard.

For further information, please refer to the Product Material Safety Data Sheet for Expanmortar BB

**\*Denotes the trademark registered**

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