

## FLOORPATCH

### Description

Floorpatch is a high strength, trowel applied, three component Epoxy resin mortar, designed for rapid and permanent repairs to concrete and masonry surfaces.

Floorpatch is a blend of Epoxy resin, Polyamine curing agent, graded siliceous aggregates and colour pigments. The mixed material is applied to a suitably prepared and primed surface, and quickly cures to form a durable, abrasion and chemical resistant repair.

### Typical Uses

Repairs to spalled or damaged concrete; chemical bunds; bedding pre-cast concrete beams; nosings on expansion joints; floor repairs.

General repairs to cementitious substrates where strength and chemical resistant properties are essential.

### Advantages

- \* Pre-packed units - ready to use
- \* Fast curing characteristics
- \* Impact and abrasion resistant
- \* Frost resistant and impervious to water
- \* Excellent mechanical properties
- \* Unaffected by a wide range of acids, and industrial chemicals
- \* Negligible shrinkage
- \* High bond strength
- \* Cures under damp, cool conditions

### Typical Properties

Colour: light grey (other colours available upon request)

Density: 2010Kg/cubic metre

Pot Life: 55 minutes @ 20C

Hard dry time: 16 hours @ 20C

Full cure: 7 days @ 20C

Compressive strength: 72N/Sq.mm.

Tensile strength: 12N/Sq.mm.

Taber abrasion resistance:

40mg weight loss (CS17 wheels; 1Kg loads, 1000 cycles)

Adhesion to concrete: Greater than 3.9 N/Sq/mm. (concrete failure)

Thermal Coefficient of Linear Expansion:

3 x 10<sup>-5</sup> cm/cm/Degree C

Maximum Service Temperature:

65C continuous

Chemical resistance:

Excellent resistance to 20% hydrochloric acid, 20% sulphuric acid, 10% citric acid, 25% sodium hydroxide, diesel and petrol.

Very good resistance to 10% lactic acid, 50% phosphoric acid, 10% nitric acid and 5% acetic acid.

Good resistance to many common industrial chemicals.

**Paco systems**

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## **PROCEDURE**

### **1) Surface preparation**

Remove all laitance, spalled concrete, grease, oil, dust and other contaminants by scabbling or bush hammering, to provide a sound, clean, substrate.

Any exposed reinforcing steel shall be fully exposed by cutting out around its full circumference, and cleaned by abrading or grit blasting to remove rust, scale, etc.

Metal substrates shall be degreased and grit blasted to Sa 2.5 Swedish standard.

### **2) Priming**

The prepared concrete surface shall be primed by the application of Tackprimer, which should be brushed well in.

A coat of primer should also be applied to any exposed re-bars.

N.B. where, following the surface preparation, there will be a delay in application to reinforcing steel or metal substrates, then a coat of Steelprime must be applied as a holding primer to prevent flash rusting.

Subsequent application of the Tackprimer may then occur after a minimum of 2 hours.

### **3) Mixing**

Floorpatch is supplied as a three component pack. Each component is pre-weighed and ready to mix.

The contents of the Curing Agent should be poured into that containing the Base component and the two liquids thoroughly mixed, by spatula or low speed drill/stirrer.

The mixed Base and Curing Agent liquid should be drained into a forced action mixer, eg. Mixall, Pennine or Creteangle, and the aggregate component slowly added under constant mixing. Run for 2 to 3 minutes until the components are thoroughly blended to a uniform colour and consistency.

### **4) Application**

Floorpatch should be applied whilst the primer is still "tacky", which is usually between 10 minutes and 90 minutes after primer application.

Apply the Floorpatch by tamping and trowelling to ensure good compaction and a tight finish. The material should not be feather edged.

Maximum thickness in horizontal applications is 50mm. For vertical applications the material may be built up in layers not exceeding 6mm.

### **5) Equipment Cleaning**

Clean all equipment, immediately after use, with Toolclean.

### **6) Curing**

Floorpatch will have hardened sufficiently after overnight cure @ 15-20C to allow full trafficking.

Longer periods of cure will be necessary at lower temperatures.

Full mechanical and chemical resistant properties will be achieved after 7 days cure @ 20C.

### **7) Packaging**

Floorpatch is supplied in 7.5Kg and 15Kg packs.

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8) Coverage

7.5Kg pack yields 3.7 litres of Floorpatch, sufficient for 0.74Sq.m. at 5mm thickness.

15Kg pack yields 7.4 litres of Floorpatch, sufficient for 1.5 Sq.m. at 5mm thickness.

9) Storage and Shelf Life

Store in dry conditions at temperatures between 10C and 25C and out of direct sunlight.

Floorpatch has a minimum shelf life of 12 months when stored in original, unopened containers in accordance with the manufacturer's instructions.

10) Limitations

Do not apply to wet or uncured concrete surfaces.

Do not apply at temperatures below 3C.

11) Health and Safety

Avoid contact of the material with the skin and eyes.

Wear appropriate gloves, overalls and eye protection during use.

Wash off with soap and water if the material comes into contact with skin.

Any eye contamination must be rapidly irrigated with copious amounts of water, and immediate medical attention sought.

Please refer to the Material Safety Data Sheet for additional information.

Floorpatch shall be applied strictly in accordance with the instructions of the manufacturer.

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