

# Rapid Setting Repair Mortar

# FAST SET MORTAR

## TECHNICAL DATA

### 1.0 DESCRIPTION

FAST SET MORTAR is a ready to use rapid setting repair mortar specially formulated with a blend of cements to undertake structural repairs and restoration work on most concrete or masonry surfaces.

### 2.0 PHYSICAL PROPERTIES:

#### 2.1 APPLICABLE STANDARDS

ASTM International ASTM C109M-08

ASTM C109M-08 Standard Test Method for Compressive Strength of Hydraulic Cement Mortars  
(Using 2-in. or [50-mm] Cube Specimens)

#### 2.2 PHYSICAL CHARACTERISTICS

##### 2.2.1 Compressive Strength

1 day	7.7 MPa
3 days	18 MPa
7 days	28.5 MPa
28 days	35.5 MPa

Compression testing test method: NZS 3112: 1986, Pt2 Clause 6

Testing undertaken by Opus International Consultants Ltd

#### 2.3 YIELD

Each 25 KG FAST SET MORTAR will yield approx. 13.5 L of mixed material. (25 KG bag will yield 0.013 m<sup>3</sup>)

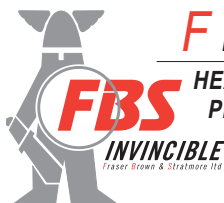
### 3.0 USES

FAST SET MORTAR is suitable for:

- Applications that require quick setting and early strength for general concrete repairs.
- Quick and thin section repairs to eroded concrete structures, leaks, concrete cracks, masonry, pipes and tanks.
- Applications that require fast patch repairs to pathways, floors and steps.
- Quick fixing of masonry, blocks, bricks posts etc.
- Vertical or overhead concrete surface repairs.

#### FEATURES

- Produces fast setting and early strength which facilitates quick and efficient repairs.
- Ready to use.
- Excellent adhesion.
- Low sag properties.
- Shrinkage compensated.
- Chloride free.



**Fraser Brown & Stratmore Ltd**

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## TECHNICAL DATA Continued

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### 4.0 APPLICATION INSTRUCTIONS

#### SURFACE PREPARATION

- 4.1 Remove all spalled areas, as well as areas of unsound concrete and previous patching materials.
- 4.2 Holes should be chipped out and cleaned to create a new sound substrate.
- 4.3 This product can be built up to 50 mm in one application. Any greater thicknesses would require reinforcing using proper techniques.
- 4.4 Holes should be dampened with clean water before patching. No puddles of water should be left in the hole.
- 4.5 When repairing cracks or holes in leaking tanks, cracks or holes must be opened to at least 15 mm wide and deep.

#### MIXING

- 4.6 Add approximately 4.5 - 5 litres of water for each 25 kg bag of FAST SET MORTAR.
- 4.7 To mix the product, pour the required amount of water in a container and add the powder to it. Mix it well with a short handle trowel. Ensure that the product is mixed in small batches. The mixed product should be used within 2 minutes of mixing.
- 4.8 For hand application, the product should be mixed to putty-like consistency into approx. 50 mm in diameter balls.

#### SETTING TIME

FAST SET MORTAR sometimes sets too fast for the application concerned. Under these circumstances up to a third can be replaced with standard construction mortar to give a setting time of approx 10 minutes. The standard mortar should be mixed first then the FAST SET MORTAR added to it and mixed in before placing and finishing. The standard mortar should not be added to the FAST SET MORTAR or there is a chance the mix will set before all the standard mortar is mixed in. The order should always be standard first then FAST SET MORTAR. Another way to increase the set time is to use ice cold water to make up the mortar paste. Depending on conditions this will produce a mortar that sets in 3 - 5 minutes.

#### APPLICATION

- 4.9 FAST SET MORTAR should be trowel applied to the damp surface. Apply a thin layer with heavy trowel pressure, and then go back and build up to the desired thickness.
- 4.10 Alternatively, if applied by hand, place the fresh prepared ball on the centre of the area and quickly smooth out from the centre to the sides using both hands to required thickness.
- 4.11 Do not try and work with the material which has already started to stiffen or lost its workability.

#### CURING

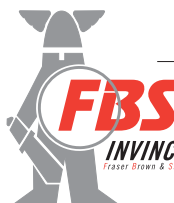
- 4.12 During the first 24 hours, it is best to keep the patch covered or damp to prevent excessive loss of water. Under hot, dry and windy conditions, all concrete tends to lose moisture unevenly and may develop plastic shrinkage cracks. The use of sheeting as well as application of a very fine fog spray of water can help in reduced shrinkage cracking.

### 5.0 PRECAUTIONS

- 5.1 Do not apply when temperatures are below 5 degrees C.
- 5.2 In hot weather, use cool mixing water to lengthen setting time.
- 5.3 Mix no more material than can be used in 3 minutes.
- 5.4 Do not remix with additional water.

### 6.0 PACKAGING

FAST SET MORTAR is available in 25kg bags.



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