

RAPIDO FIX

Cementitious Rapid Setting Repair Mortar for Large Patches in Floors



Rapido Fix mortar is supplied as a pre-blended dry powder to which water is added to produce an easily trowellable mortar. Rapido Fix mortar is a blend of inorganic cements, modifying additives to control the rate of set and strength gain, plus selected hard wearing aggregates. Rapido Fix mortar does not contain calcium chloride. Rapido Fix mortar has been designed for the emergency patching of small areas of concrete i.e., individual patches requiring around 3.25 liters of water per 25kg bag of Rapido Fix mortar.

The blend of cements eliminates shrinkage with the consequent reduction of stress at the bond line. Long lasting adhesion is ensured by the use of TM Bond[®] AR bonding agent.

Uses

Rapido Fix mortar has been specially designed to provide a very fast set repair in concrete floors and pavements and is particularly useful where traffic must be kept flowing. Rapido Fix mortar will accept pedestrian and vehicular traffic in 2 hours.

Rapido Fix mortar will be of particular interest to industrial maintenance engineers, transport managers, airport authorities or any place where that pot holes in concrete cause a hazard to pedestrian and wheeled traffic.

Benefits

- **Fast Setting-** Minimum disruption to traffic
- **Easy to use-** Needs only the addition of water
- **Easy to lay-** Trowel applied
- **Non-shrink-** Does not crack
- **High Adhesion-** Ensures good bonding to substrate
- **Durable-** Tough surface, resistant to wear and tear

Technical Support

A technical advisory service is available for onsite assistance in the use of Thermax product range.

Properties

Working Life	5-10 minutes
Setting Time	4-10 minutes
Vehicular Traffic Time	2 hours
Pedestrian Traffic Time	2 hours

Compressive Strength (N/mm²) at 30°C	5-8 in 1 hour 10-12 in 1 day
Mix Density	2.23-2.24 gm/cc
Adhesion Bond Strength to Concrete (ASTM D 4541)	>3 N/mm ²
Flexural Strength (ASTM C 348)	>10 N/mm ² at 28 days

Instructions for Use

Before using any repair material Thermax recommends that the reason for the failure be diagnosed by a suitably qualified authority.

Surface Preparation

Successful repairs to concrete depend totally on correct surface preparation. Particular care should be taken to ensure all surfaces are completely free of laitance, oil, dust, grease, plaster, paint, corrosion and any other deleterious substances. Laitance should be mechanically removed by high pressure water blasting, grit blasting or a combination of both. Oil and grease deposits, should be removed by steam cleaning or detergent scrubbing, or the use of a proprietary degreaser. Smooth surface should be mechanically roughened by scrubbing or needle gun to form a good key. All reinforcing steel must be grit blasted to a profile of SA 21/2 prior to the application of suitable anticorrosive coating.

Edges of the areas for repair must be saw cut to 12mm to avoid feather edging.

Finally the complete area should be blown clean with oil free compressed air.

Rapido Fix mortar may be used from a minimum of 12mm thick to a maximum of 50mm thick. If the depth of the pot hole is greater than 50mm, individual layers should be scratch keyed and allowed to set for a minimum of 1 hour before priming and placing the next layer.

Priming

All surfaces must be primed prior to repair. Before priming, the substrate should be thoroughly soaked with clean water and any excess removed from the surface preferably by oil free compressed air. Concrete must be primed with TM Bond[®] AR, bonding agent.

TM Bond[®] AR bonding agent is an acrylic emulsion which is scrubbed into the surface of the concrete. Rapido Fix mortar should be applied to the primed surface as soon as possible after mixing, ideally with the primer having been allowed to become tacky.

Mixing

Rapido Fix mortar must be mixed in a forced action mixer or alternatively with a slow speed drill (500 rpm) fitted with a spiral paddle. Free fall mixers must not be used.

The mixing ratio of Rapido Fix mortar is 30 kg of powder to 3.9 litres of water.

The recommended amount of water should be put into the container and the contents of the Rapido Fix mortar bag be added. The mixing time should be 2 to 3 minutes to allow smooth lump free consistency. Do not mix for longer than 3 minutes or delay in placing the mixed material, otherwise the available working life will be reduced. In general it is recommended that only 1 bag be mixed at any one time to ensure that Rapido Fix mortar is placed within its working life.

Application

Place the mixed material evenly over the primed surface and tamped in place with a wooden float to ensure full compaction. Strike off the surface to the correct level and finish with a steel trowel, to fully close the surface. If a textured finish is required this can be done with a roller or sweeping brush.

Curing

Rapido Fix mortar requires curing in accordance with good concrete practice. As soon as trowelling has been completed, Maxcure[®] CC 75 shall be applied as curing membrane. Protect the surface from heavy rainfall to prevent surface scour.

Cleaning

Rapido Fix mortar should be removed from tools with clean water immediately after use. Cured material can only be removed mechanically.

Storage

Shelf Life

6 months in unopened bags if kept in a dry store. In humid locations the shelf life may be reduced to 3-4 months.

Packing

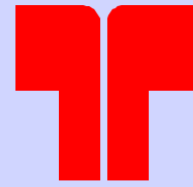
Rapido Fix mortar- 30 kg bags
TM Bond[®] AR- 1, 5 & 20 litre containers
Maxcure[®] CC 75- 5, 20 & 210 litre containers

Coverage and Yield

Rapido Fix mortar when mixed with recommended quantity of water will yield 15.5 litres of mixed material.

TM Bond[®] AR covers 6-8 m²/litre depending on porosity and texture of substrate.

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