

FLASH TIXO

Mortar Cementitious, Rapid Setting Repair Mortar for Small Patches



Flash Tixo is supplied as a ready to use dry powder requiring only the addition of water to produce a high strength mortar with non-shrink property.

The material is a mixture of specially processed cement and carefully graded fine aggregates. Additives impart controlled expansion characteristics and reduce water necessary to produce cohesive mortar mix. The very low water/powder ratio (0.14) ensures high early and ultimate strengths.

For repairing thick sections of more than 25mm depth it is necessary to use well graded aggregates (machine crushed, washed and cleaned) in the size range of 3mm to 10mm. Quantity of aggregates should not exceed 1 part of graded aggregate to 1 part of Flash Tixo by weight in which case the water/powder ratio will need to be increased to 0.18.

Uses

For patching and replacement of worn out areas, filling of holes or depressions in concrete floor slabs in factories, godowns, commercial or domestic buildings.

Benefits

- **High Strength:** Nearly three times harder than the normal concrete
- **Non-Shrink:** Eliminates shrinkage problems associated with conventional cement concrete/mortars and ensures effective bonding.
- **Reliability:** Factory controlled pre-packed product eliminates material selection, quality control and other associated problems on site.
- **Durability:** Very high ultimate strengths combined with a uniform micro cellular material structure providing heavy duty performance and durability.
- **Early Usage:** Floor usable in 24 hours for light traffic and in 72 hours for all traffic.
- **Iron-free, Chloride-free:** No metallic iron present to corrode and cause staining or deterioration due to rust expansion. Allows early strength development without the use of chlorides.

Technical Support

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

Properties

Compressive Strength (N/mm²)

The following are the typical values obtained with Flash Tixo at recommended water powder ratio.

1 day	3 days	7 days	28 days
25	40	50	60

Instructions for Use

Mix Specification

The amount of water required to obtain a cohesive mortar consistency only should be used. Accurate gauging methods must be employed. The water addition to each 30 kg standard pack of Flash Tixo should be:

Mortar Consistency- 4.2 litres

Mortar with Coarse Aggregates- 5.4 litres (max.)

Mixing

A mechanically powered free fall concrete mixer may be used for small quantities up to 50 kg (25 litres of mortar) mixing may be carried out using a steel paddle in a hand held heavy duty industrial drill. Under no circumstances should Flash Tixo be mixed by hand.

- Place about 80% of the specified volume of water in the mixer and also place in the drum 6 to 8 hard, clean stones or old concrete cubes of 100mm size to increase efficiency of mixing.
- Slowly add the required quantity of Flash Tixo and mix continuously.
- Add the remaining water and continue mixing until an even consistency mortar free from lumps is obtained.
- Addition of extra water will reduce the strength of the mortar.

Surface Preparation

The patch to be repaired must be chipped to a minimum depth of 25mm and all loose particles, dust, etc., removed to leave a clean, vertical edge all round. It must be ensured that patches to be treated must be cut back and made either square or rectangular in shape.

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The area to be repaired should be cleaned by vacuum or compressed air to ensure proper cleaning.

Priming

The cleaned surface free from dust and loose particles should be primed with a first coat of TM Bond PVA / TM Bond AR (one part of which is diluted in 5 parts of water) - by means of a brush and allowed to dry for at least 1 - 3 hrs depending upon temperature and humidity.

A second coat of TM Bond PVA / TM Bond AR is applied on the surface and the repair mortar is placed when the primer is still tacky.

Where Flash Tixo is mixed with aggregates for larger areas, priming must be done with TM Bond AR. Water and cement ratio is the ratio of 1:1:3. Application of Flash Tixo must be done when the primer is tacky.

Note: In the areas where water stagnation is expected, the primer shall be TM Bond AR.

Application of Mortar

The Flash Tixo mortar which is obtained by mixing water with the recommended water powder ratio (see mixing) is placed on the second coat of primer while tacky, and trowelled firmly into all edges first and over the entire area to fill it completely and levelled with a steel or wooden float. The finished area must be covered with a thick gauge polythene sheet and made airtight for at least 4-6 hours after which normal curing with wet hessian cloth or water ponding must be carried out for a minimum period of 72 hours after which the floor may be opened to all industrial traffic. The application of Flash Tixo mortar must be carried out in small bays measuring 2m² area at a time.

Curing

The areas repaired with Flash Tixo mortar must be cured as soon as the surface slightly stiffens and not later than 4 hours. Normal curing with water ponding or wet hessian cloth must be carried out for a minimum period of 72 hours. The floor may be used for light traffic viz. foot traffic and light trolleys after 24 hours in which case a steel sheet of at least 2mm thick is laid over the polythene cover over which light traffic may be run as mentioned above.

Health & Safety Instructions

FLASH TIXO and TM Bond AR are non-toxic. Gloves should be worn while handling. Flash Tixo mortar is slightly

alkaline in nature. Splashes of mortar should be washed off with clean water.

Storage

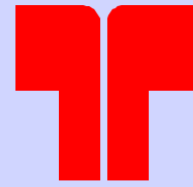
Flash Tixo has a shelf life of 6 months in unopened bags if kept in a dry store. In humid locations the shelf life may be further reduced.

Packing

TM Bond AR is available in 1, 5, 20 litre packing. Flash Tixo is available in airtight HDPE packs of 30kg.

Coverage and Yield

1 litre of TM Bond AR when diluted with 5 litres of water will cover approx. 6-8 sq.m depending upon the texture of the concrete surface. Flash Tixo mortar with recommended water powder ratio will yield approx. 15.5 litre per 30 kg pack.



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