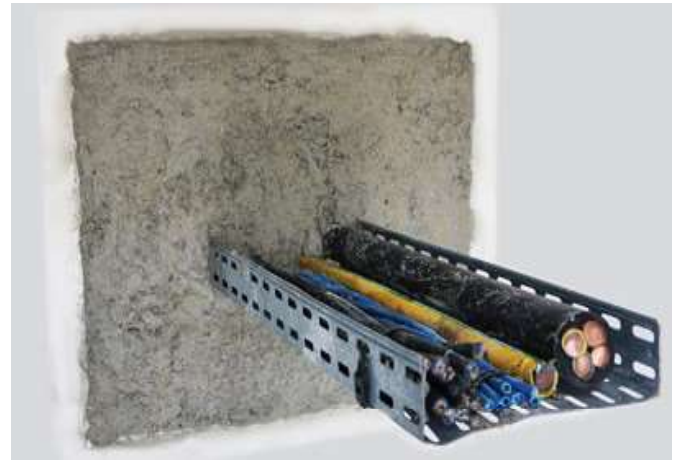


Fire Resistant High Build Mortar

ST-FRM

A proprietary pre-packed cementitious based high build mortar with Fire Resistant Performance (FRP) of 2 hours both for integrity and insulation. It can be used for concrete repair, grouting or plastering applications to meet statutory fire resistant requirement. It can be applied on substrates like concrete, dry walls, light-weight blocks, steel structures, etc.



PRODUCT DESCRIPTION

ST-FRM is a cementitious based materials with excellent fire resistant performance of 2 hours integrity and insulation when tested to BS 1364-1 as well as evaluated in accordance to BS 476 - 22: 1987. It consists of cementitious binder, light weight filler aggregates, fine graded sand and fire resistant additives. It is suitable for use for concrete repair, grouting or plastering materials to be applied on substrates like concrete, dry wall, light-weight blocks, steel structure, etc., for enhancing the fire resistant properties of the original element to meet statutory fire resistant requirement. It can be applied wither by machine spray or hand trowel.

SUBSTRATE PREPARATION

The substrate must be sound, even and reasonably damp before application. Any foreign, damaged, blistered, split items, dirt, covering & paints must be removed. Honeycomb defects, bubbles, cracks, hollow joints, and concrete joints must be attended to and repaired before application.

FEATURES & BENEFITS

- ◆ Premixed in factory
- ◆ Fire resistant with 2 hours integrity and insulation
- ◆ High productivity
- ◆ Cost effective
- ◆ Excellent workability
- ◆ Easy, tidy and clean storage
- ◆ Environmental friendly
- ◆ Anti-cracking

AREAS OF APPLICATION

- ◆ Concrete repair
- ◆ Fire resistant grouting
- ◆ Fire resistant plastering/rendering
- ◆ Consult Score Tech's staff for other suitable application

MIXING & INSTALLATION

1. For concrete or mortar substrate, pre-wet the substrate before applying ST-FRM.
2. Mix ST-FRM with the recommended water quantity in a suitable container by an electric auger type mixer for about 3 minutes to achieve a homogeneous creamy paste for use. When the mortar is left aside for more than 30 minutes, remix the mortar without adding water to restore its workability before use. Do not use over-dried mortar.
3. Apply the well-mixed ST-FRM with a trowel onto substrate until the required thickness is achieved. Excessively thick layer should be applied in multiple layers.
4. For machine spray or grouting application, please consult Score Tech for details.
5. Make good the surface with spatulas or conventional plastering tools to give the desired finishing surface.

CURING

Under normal circumstances, natural air curing is already proved to be adequate for ST-FRM. However, for extremely absorptive lightweight blocks or under extremely dry weather condition, water mist curing will be beneficial to ST-FRM to attain its best performance.

PACKAGE

25 kg bag

SHELF LIFE

ST-FRM has a shelf life of 6 months if well kept in dry condition on lifted floor.

HEALTH & SAFETY

Wear NIOSH approved face mask or equivalent personal protective equipment when handling the material. ST-FRM contains cement which may cause an allergic effect or irritation to eyes and skin. When contact with eyes, flush immediately with large quantity of water.

REFERENCE STANDARDS

◆ British Standard: BS 476 ; BS 1364-1

PRODUCT INFORMATION

| | |
|--------------|-------------------|
| Colour | Grey |
| Water Demand | ~ 4-5L /25 kg Bag |
| Pot Life | ~ 1 hour |

PRODUCT PERFORMANCE

| | | |
|----------------------------|--------------------|----------------------------------|
| Fire Resistance Properties | BS 476 & BS 1364-1 | 2 hours integrity and insulation |
|----------------------------|--------------------|----------------------------------|

DISCLAIMER

Note: As the application condition may vary from site to site and may not be identical to the same condition under which the parameters in the brochure are drawn, the information provided on this Technical Data Sheet is for general guidance only. Warranty will not be given to the ultimate performance and application results of this material when the material is not kept, mixed, applied or cured strictly in accordance with the requirements and/or instructions listed out in this brochure or in other supplementary document.

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