SFM™
Structural Fireproof Mortar for composite systems

AFZIR
Advanced Solutions
Strengthening Company

PRODUCT DESCRIPTION

Afzir Structural Fireproof Mortar for composite systems (SFM™) is a one component, spray applied, specialized fireproofing material designed to be used with FRP systems to provide up to four hours of fire protection. SFM™ is used for protection of FRP surfaces in many applications.

This product provides structural members such as walls, roofs and other members with fire-retardence and can be used as a part of passive fire-resistance system in buildings. The formula of this product make it capable to provide requirements of International Building Code for all kinds of structural members. When subjected to flame or high heat, SFM™ expands to a thick insulating blanket. This product limits the spread of flame and insulates the surface. SFM™ is designed for application to combustible areas of public assembly such as restaurants, hospitals, nursing homes, schools, corridors, stairwells, etc.

PRODUCT FEATURES

- Provides up to 4 hour fire resistance ratings
- Low pressure, pneumatic spray application equipment requires less manpower to operate
- Easy to use
- High bond strength
- Provides fast and efficient application
- Low odor
- Smooth architectural grade finish
- Fire resistance for a wide range of surfaces
- Fully trusted

PRODUCT USES

- For fireproofing of any concrete structures such as walls, roofs and other members
- For many interior applications
- for application to combustible areas of public assembly such as restaurants, hospitals, nursing homes, schools, corridors, stairwells
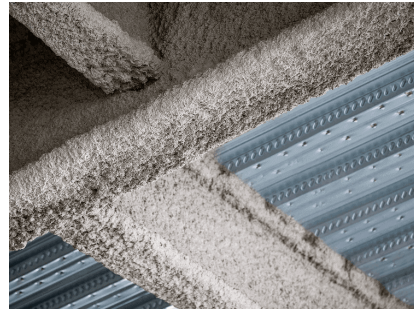
HOW TO USE
SURFACE PREPARATION

Concrete surfaces should be clean, sound, and exhibit an open pore structure. Remove any excess dust, debris, oils, or other bond inhibiting materials prior to application.

TECHNICAL DATA	
Colour	Grey
Density	0.9-0.95 kg/cm³
Specific Weight	600 kg/m³
Heat Transfer Coefficient	0.29 W/m°C
Compressive Strength	10.6 MPa
Shelf life	15 month

MIXING

Structural Fireproof Mortar (SFM™) should be mechanically mixed using a low speed drill with a mixing paddle. Mix thoroughly to a uniform, smooth consistency. Avoid entrapping air while mixing.

Structural Fireproof Mortar for composite systems - SFM™

APPLICATION

Apply by using roller, brush, conventional air or airless spray. SFM™ can be applied in one coat or several assuring compliance with the intent of the specification. Avoid applying to excess, do not apply at temperatures below 10°C.

STORAGE

Structural Fireproof Mortar for composite systems (SFM™) should be stored dry in their original package until just prior to their use, the best conditions being at a temperature of between 15 and 35. Bags should be kept off the ground and protected from moisture.

FIRST AID

SFM™ may cause skin irritation and sensitization. Use of chemical resistant gloves is recommended. Avoid breathing vapors and dust. Get medical attention if you are breathing with difficulty. Resins products can cause strong eye irritation. Avoiding eye contact and Using safety goggles is necessary.

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

DISCLAIMER OF LIABILITY

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase.

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.