

FIRECUT



FIRECUT **F - 1**

*Fire Protection For Steel Structures
Medium Density - Exposed Interior*



FIRECUT F-1 Fire Protection For Steel Structures



FIRECUT F-1 (Medium Density) The cementitious fire protection coatings of **FIRECUT F-1** is designed for steel structures so as to have excellent adhesion to steel substrates for exposed interior usage. **FIRECUT F-1** is formulated with materials such as cement, vermiculite, fiber (asbestos free) and some other inorganic materials, where it shows the toughness and strength of concrete as well as the flexibility of the crosslinked network of fiber. The physical properties is significantly better than equivalent products in the market.

When it was burned in the fire, no smoke was produced. After burning of 3 hours, the burned coating kept as strong as it was before the burning and therefore, it will not be destroyed by the occurred wind-storm in the accidents.

No Corrosive



Due to the components of **FIRECUT F-1** can prohibit the oxidation of iron. It is not corrosive to the steel substrate.

No Asbestos & Smoked Development

From the test by Union Chemical Lab of Industrial Technology Research Institute, it shows that **FIRECUT F-1** does not contain any asbestos.

FIRECUT F-1 has passed the test in addondant ASTM E84 (Fire Hazard) standard, the smoked developed is zero.

High Performance

As it is applied and dried on the steel, **FIRECUT F-1** is tough and light. The impact resistance, compressive strength and bending durability are significantly higher than equivalent products. The coefficient of heat-transfer is very low; due to that of vermiculite.

Easy Installation

FIRECUT F-1 can be sprayed by mixing with water. It has an advantage that the good workability is accompanied by anti-sagging property, i.e., one case can reach more than 25mm. without sagging. **FIRECUT F-1** has an excellent adhesion ability to steel substrates, thus it can be sprayed on the steel substrate without pre-coat or adhesion promoters.

Best Quality

FIRECUT F-1 shows excellent physical properties. It has been tested by the public testing institute according to standard, and the results are better than those of the equivalent products.

Excellent Fire Protecting Ability

FIRECUT F-1 shows an excellent fire-protecting ability. As shown in the picture, after being burned for 5 hours, the deflection the restrained beam coated by **FIRECUT F-1** with the thickness of 3 hours fire rating was well within the allowable range.



Standard Fire Test

FIRECUT F-1 shows excellent rating compared to the equivalent products, classified to U.S. by the Underwriters Laboratories Inc.(UL) according to the standard of ASTM E119(UL263) and NFPA251

UL Certificate

The production and sampling was supervised under the representatives from Underwriters Laboratories Inc. The Fireprotecting ability of those materials have been classified by the Underwriters Laboratories Inc. and as indicated on the UL Fire-Resistance Directory



Automatic Production

FIRECUT F-1 is mass produced by totally automatic machines, so that its quality is uniform and stable and can be reliably supplied to customers.



The factory is also certified by ISO 9001.

FIRECUT F-1 was made in accordance to ASTM standard for the performance characteristics listed below critical to the long term liability of your fireproofing.

- Specification for Medium Density Fireproofing Product - Exposed Interior -

PRODUCT	Firecut Type F-1 (Medium Density)	Test Method
DRY DENSITY	513 kg / m ³ (32 PCF)	ASTM E 605
BOND STRENGTH	1,500 PSF	ASTM E 736
COMPRESSIVE STRENGTH	17,000 PSF	ASTM E 761
AIR EROSION	0.00 g / ft ²	ASTM E 859
CORROSION	Non - Corrosive On Bare Shop Coated Steel	ASTM E 937
BOND IMPACT	No Cracking Spalling or Delamination	ASTM E 760
DEFLECTION	No Cracking Spalling or Delamination	ASTM E 759
FIRE HAZARD	Flame Spread Index : 0 Smoked Development : 0	ASTM E 84
PH	12	When Wet

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