



虹牌油漆

FIRECUT F-1 火壩防火被覆 (建築用)

FIRE PROTECTION COATINGS (interior)



"See Complete Classification Mark" On Product Packaging

火壩 F-1(建築用)防火被覆

FIRE PROTECTION COATINGS (Interior)

本公司之無機防火被覆：火壩 F-1專為鋼構物設計，對鋼材有特強之附著力。火壩 F-1含有水泥、蛭石及纖維與無機防火材料，不但兼具有水泥的鋼性強度，更有纖維交錯網狀韌性之特徵，其物性比市售之同級品優異。燃燒時不會產生任何毒煙，燃燒後仍堅固如初，不會被火災所引起之風暴所破壞。



The cementitious fire protection coatings of FIRECUT F-1 is designed for steel construction so as to have excellent adhesion to steel substrates. 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 net work 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 the burning, 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 fire Accidents.



▲ UL 測試體施作



▲ UL 防火測試-H-column (燃燒前)



▲ 具備自我防蝕能力



▲ H-column 經防火測試後，依然完好堅固。

1 材質堅韌，耐震耐壓

施工硬化後堅固而質輕、耐衝擊、抗壓及抗彎能力更是高人一等。熱傳導係數低，與蛭石相近。

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, close to that of Vermiculite.

2 防蝕性強

FIRECUT F-1之成份可意抑制鐵之氧化作用，對直接接觸之鋼材不會造成腐蝕之現象。

Due to the components FIRECUT F-1 can prohibit the oxidation of iron, it is not corrosive to the steel Substrate.

3 防火力優異

經美國 Underwriters Laboratories Inc.依 ASTM E119 (UL 263) 規範，測試其時效厚度 (rating)，比其他廠牌優異。

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

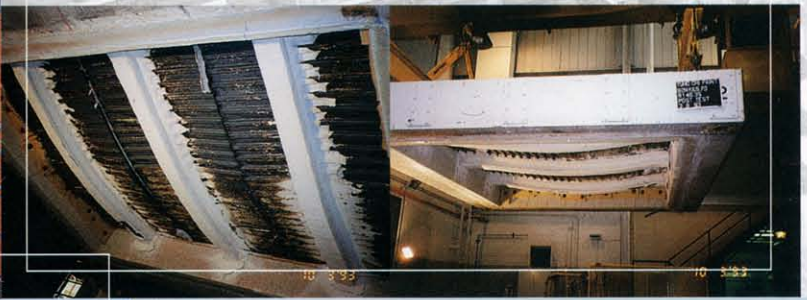
4 不含石棉

工業技術研究院化工所檢驗，證明產品中完全不含任何石棉成份。

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



◀ 鋼樑噴塗
▲ 方柱噴塗 ▼ 斜撐噴塗



▲ 全自動生產包裝

▲ 永記屏南廠 → 肇興企業

▲ 載重鋼樑測試後，仍然完好堅固。

火壩 F-1 之防火功能優異。如上圖照片所示，以 3 小時之時效厚度燃燒 5 小時後，載重樑之塌陷程度仍在合格範圍內。

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 rating was with in the allowable range.

5 全自動化生產

在國內全自動化生產，品質與供貨之穩定性絕對優於國內外之其他品牌。

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

6 物性優異

火壩 F-1 之物性優異，經各公立檢驗機構依規範測試，其結果比其他廠牌優異。

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

7 防火時效 & 設計編號

- UL Design No.D778 Protected Floor / Ceiling Systems
- UL Design No.N768 3-Beams Only-Floor Systems
- UL Design No.Y701 Columns-H types
- UL Design No.Y703 . Y706 . Y711 Columns-Tubing & Piping types

8 UL 測試

美國 Underwriters Laboratories Inc. 派員來廠監製採樣並測試合格而冊列在防火年鑑上。

The product and sampling was supervised under the representatives from Underwriters those materials has been classified by the Underwriters Laboratories Inc. And as indicated in the UL Fire-Resistance Directory.

9 易施工

加水攪拌後即可噴塗或鍍塗，流動性良好，厚噴亦不垂流（一次可噴 25mm 以上）。對底材之附著力強，施工時不必噴附增進劑。

FIRECUT F-1 can be sprayed by mixing with water. It has a advantage that the good workability is accompanied by antisagging property, i.e., One coat 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 precoat or adhesion promoters.

相關資料

- 顏色：灰色
color : gray
- 不垂流厚度：每道25mm以上（正常操作下）
Thickness Without Sagging : more than 25mm per coat
(under appropriate application)
- pH值：12左右
pH : ca. 12
- 包裝：15kg袋裝
Packaging : 15kg/bag
- 施工方法：噴塗或手工鏟塗
Application : spray or trowel
- 被塗層數：一層或數層
Numbers of coats : one or more coats
- 適用底材：鋼材
Substrate : steel
- 硬材時間：粗凝2-6小時
Time for curing : 2-6hrs. for tack-free
- 達50%強度：5天 5 days for reaching 50% strength
- 達70%強度：10天 10 days for reaching 70% strength
- 達98%強度：28天 28 days for reaching 98% strength



世大晶圓廠



太子建設辦公大樓



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中華電信成功機房



高雄醫學院



虹牌油漆

永記造漆工業股份有限公司

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