

相關資料

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



建築用

FIRECUT F-1 火壩防火被覆

Spray-Applied Fire Resistive Materials



APPROVED PRODUCT
CF5766



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F-1火壩防火被覆

Spray-Applied Fire Resistive Materials

建築用 | Exterior

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 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 fire accidents.

1 物性優異 Excellent Physical Properties

施工乾燥後堅固而質輕，耐衝擊、抗壓及抗彎性能更是高人一等且內含抗裂纖維堅固而強韌，遭重擊而不剝落，即使經三小時火焰燃燒仍具相當物性，不粉化或鬆軟，可耐火場之對流風，並確保其防火力。

After it is applied and cured on the steel substrates, FIRECUT F-1 is tough and light. The impact resistance, compressive strength and bending durability are significantly higher than equivalent products. Due to its inclusion of tough and strong anti-deflection fiber, no peeling occurs under heavy blows. The physical properties can still be maintained even after 3 hours of burning in the fire, no chalking or loosens occurs. It can resist the wind-storm in the scene of fire accident and thus ensure its fire protection capability.

2 防火測試認證 Fire Testing Certification

經美國UL SOLUTIONS依ANSI/UL263(ASTM E119)建築結構耐火測試及模擬環境曝露測試認證合格，具有保護室內外建築物鋼骨結構鋼樑、鋼柱及鋼樓板構件體可達三小時以上之防火性能。此外，火壩F-1亦經UL SOLUTIONS依英國BS 476: PART 20/21: 1987測試標準及ASFP第5版次黃皮書評估認證通過，可使用於一般建築室內及室外環境鋼結構防火被覆材類。

FIRECUT F-1 has passed the test of ANSI/UL 263 (ASTM E119) Fire Test of Building Construction and Materials by Underwriters Laboratories Inc. It has the capability of protecting exterior and interior structural steel beams and columns and floor units up to 4 hours. In addition, the FIRECUT F-1 has also been verified by the UL SOLUTIONS in accordance with the ASFP Yellow Book, 5th Edition - BS 476: Part 20 & 21 (1987) test standard verification survey.

3 不含石棉 No Asbestos Content

經內政部建築研究所性能實驗中心及SGS檢驗證明產品中完全不含任何石棉成份，且經美國UL SOLUTIONS依ASTM E84(UL 723)檢測，其發煙量為零。

The test done by SGS Taiwan Ltd. shows that FIRECUT F-1 does not contain any asbestos at all. FIRECUT F-1 is also tested by UL SOLUTIONS according to ASTM E84 (UL 723), the smoke development is zero.

經英國WARRINGTONFIRE依英國BS 476: PART 20/21: 1987測試標準及ASFP第5版次黃皮書評估認證通過，具備可達四小時之防火性能，並可運用使用於鋼骨建築結構體之 I (H) 型鋼樑及鋼柱、中空方型鋼樑及中空方、圓型鋼柱。

FIRECUT F-1 was also tested by Warringtonfire Testing Ltd. (Proud to be part of element) in U.K. according to BS 476: Part 20/21: 1987 (BS "Yellow Book" 5th Edition) Standard and certified to acquire the fire protection capability up to 4 hours. It can be used I/H section Beams and Columns, Rectangular/Square Hollow Beams and Rectangular/Square & Curcular Hollow Columns.

4 品質佳、供貨足 Best Quality, Stable Supply

火壩F-1經 TUV RHEINLAND TAIWAN LTD. 及經濟部標檢局稽核認證防火塗料設計/開發、生產、施工、銷售/服務均符合 ISO 9001: 2015 品質系統。而且加入美國UL SOLUTIONS工廠檢查追蹤服務體系 (UL FOLLOW-UP SERVICE PROCEDURES)及英國獨立第三公正機構【CERTIFIRE】的工廠追蹤稽核查驗體系(CERT. NO. CF5766/PASSIVE FIRE PROTECTION FOR STEELWORK)。使用自動化設備生產且年產能可達百萬包，品質與供貨之穩定性絕對優於國內外產品。

Audited and certified by Taiwan TUV and the Bureau of Standards, Metrology and Inspection (BSMI), Ministry of Economic Affairs of Taiwan R.O.C. in the areas of research & development, manufacturing, application, and sales / customer services of the fire production coatings and they all comply with ISO 9001: 2015 Quality System.

Also participate in the product traceability system (Cert. No. CF5766/Passive Fire Protection for Steelwork) of the Third Party Certification Organization in U.K. which is Warringtonfire Certification 【CERTIFIRE】, and together with 『Follow-up Service』 by UL SOLUTIONS being the largest coating manufacturer in Taiwan, automatic equipment are used for manufacturing and annual production capacity can reach millions of bags, the consistency of quality and supply are superior than other foreign and domestic products.

5 設計編號&評估報告 DESIGN NO. & CF NO.

UL Online Classification Directory - Design Nos. D778, D983, N768, N808, Y701, Y703, Y706, Y711 & BS-PS-00105. CERTIFIRE - CERTIFICATE OF APPROVAL NO. CF 5766

6 綠色環保產品驗證 UL GREENGUARD CERTIFICATION

產品經美國UL GREENGUARD依據UL 2818 GREENGUARD GOLD CERTIFICATION PROGRAM測試驗證，證明火壩F-1防火被覆材料符合使用於『GREENGUARD CHILDREN & SCHOOLS CERTIFICATION(孩童及學校綠色環保守護證明)』

GREENGUARD Certification is part of UL Environment, a business unit of UL SOLUTIONS. GREENGUARD Gold Certification (formerly known as GREENGUARD Children & Schools Certification) offers stricter certification criteria, considers safety factors to account for sensitive individuals (such as children and the elderly), and ensures that a product is acceptable for use in environments such as schools and healthcare facilities.

It is referenced by both The Collaborative for High Performance Schools (CHPS) and the Leadership in Energy and Environmental Design (LEED) Building Rating System.

7 易施工、低污染 Easy Application, Low Pollution

加水攪拌均勻後即可直接噴塗施工，流動性好而黏度適中。亦可於施作完成面，上塗各類保護裝飾塗料(非強制性)。

上塗保護裝飾塗料，不僅可以增加外觀之多彩與美觀，亦可保護被覆材不會直接接觸大氣污染，可以大大延長保固年限。

After being mixed with water and stirred well, FIRECUT F-1 can be sprayed immediately. It has good fluidity and optimum viscosity. On top of the finished surfaces, different types of protective and decorative topcoats can be applied (not compulsory). After the application of topcoat system, it does not only provide a pleasant and colorful appearance, but also protect the FIRECUT F-1 from the direct contact with atmospheric pollution, thus prolong the warranty period.

8 稽核認證&追蹤服務 Audit Certification & Follow-up Service Procedure

經 TUV Rheinland Taiwan Ltd.及經濟部標準檢驗局稽核認證防火塗料設計/開發、生產、施工、銷售/服務均符合 ISO 9001: 2015 品質系統，並且加入美國UL SOLUTIONS之產品追蹤服務(UL Follow-Up Service)體系。

Audited and certified by Taiwan TUV and the Bureau of Standards, Metrology and Inspection (BSMI), Ministry of Economic Affairs of Taiwan R.O.C. in the areas of research & development, manufacturing, application, and sales / customer services of the fire production coatings and they all comply with ISO 9001: 2015 Quality System, and together with 『Follow-up Service Procedure』 by UL SOLUTIONS.



H-column 經防火測試依舊完好



UL 防火測試-H-column



鋼樑噴塗



方柱噴塗



斜撐噴塗



UL 測試體施作