



RAINBOW

SPRAY-APPLIED FIRE RESISTIVE MATERIALS (OUTDOOR, HEAVY INDUSTRIAL USES / NEW UL1709)

- PRODUCT NUMBER** F-100
- TYPE** FIRECUT F-100 contains asbestos-free inorganic components which is suitable for interior and exterior uses such as Portland cement, vermiculite and highly chemical-resistant special fiber. Besides the characteristics of excellent toughness and steel properties, FIRECUT F-100 can also resist to the abruptly-increased temperature and polluted environment. It is the best fire protection coating with excellent weather-ability and fire protection for petrochemical plants and general industrial facility.
- CHARACTERISTICS**
- 1. Excellent Physical Properties**
Due to the existence of highly impact-resistant fiber, FIRECUT F-100 is so tough that no cracking can be observed after suffering a heavy impact. Even after it has been burned in the fire for 3 hours, the burned coating still maintains strong physical properties and is not chalked or softened. This assures its fire protection capability and its resistance to the wind-storm occurred in the fire accidents.
 - 2. Excellent Weather-ability**
With the existence of highly chemical-resistant components, FIRECUT F-100 can maintain its excellent physical properties and fire protection capability even though it is exposed to exterior polluted environments for a long period of time. FIRECUT F-100 is certified by the U.S. Underwriters Laboratory Inc. according to UL 1709 (5th Edition) and UL 2431 (2nd Edition) and obtained IA Grade Classification Categories of Fire Resistive Materials that can be used in Outdoor and Heavy Industrial, and it is thus registered in the UL Product iQ.
 - 3. No asbestos Content**
The test done by SGS Taiwan shows that FIRECUT F-100 does not contain any asbestos at all. FIRECUT F-100 is also tested by Underwriters Laboratories Inc. according to ASTM E84 (UL 723), the smoke development is zero.
 - 4. Easy Application, Low Pollution**
After being mixed with water and stirred well, FIRECUT F-100 can be sprayed or toweled. It has good fluidity and optimum viscosity. On top of the toweled surfaces, different types of protective and decorative topcoats can be applied (not compulsory, topcoat can be added if necessary, because there is no application of any protective or decorative topcoat system in the durability and environmental simulated tests according to ANSI/UL 2431 (2nd Edition) exterior heavy industrial simulated environmental tests for FIRECUT F-100.
 - 5. Best Quality, Stable Supply**
FIRECUT F-100 is certified and audited by TUV CERT TAIWAN on Design/R&D, Production, Application, and Sales/Service to comply with the ISO 9001: 2015 Quality System. Also participate in the product traceability system (Cert. No. CF5765/Passive Fire Protection for Steelwork) of the third Party certification organization in U.K. which is Warringtonfire Certification Reg. No. 2250182 【CERTIFIRE】, and together with 『Follow-up Service』 by U.S. Underwriters Laboratories Inc. and the annual production of millions of bags by automated production facilities, the stability of quality and quantity supply of FIRECUT F-100 is definitely more superior to that of the domestic and overseas products.
 - 6. UL GREENGUARD Certification**
GREENGUARD Certification is part of UL Environment, a business unit of Underwriters Laboratories. 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. Fire Testing Certification**
 - (1)** It passed the test of UL 1709 (5th Edition) by U.S. Underwriters Laboratories Inc., and possessed the fire protection capability up to 4 hours. It also passed the test of UL 2431 (2nd Edition) and obtained IA Grade Classification Categories of Fire Resistive Materials that can be used in Outdoor and Heavy Industrial. Registered as UL Design No. XR713 and categorized as Fire Protection Coating for Exterior Structural Steel in Petrochemical Industry registered in the UL Product iQ.
 - (2)** FIRECUT F-100 also passed the test of UL 263 Fire Test of Building Construction and Materials by U.S. Underwriters Laboratories Inc. It has the capability of protecting interior and exterior structural steel beams and columns up to 4 hours, and is registered as 『UL Design Nos. D983, N770, Y706, Y716 and Y717』 and categorized as Fire Protection Coating for Exterior Structural Steel in General Building Construction registered in the UL Product iQ.
 - (3)** FIRECUT F-100 was also tested and certified by Warringtonfire Testing and Certifications Ltd. (WF Lab. and CERTIFIRE/Proud to be part of element) in U.K. according to BS 476: Part 20 & 21: 1987 Standard (BS ASFP 5th Yellow Book) to achieve up to 4 hours fire protection on structural steel sections such as I(H) steel beams & columns, rectangular hollow steel beams and rectangular & circular hollow steel columns.
- NOTE**
- 1.** The lowest environmental and substrate surface temperature must be above 4°C, such temperature should be exceeded 24 hours before and after the application.
 - 2.** The lowest environmental and substrate surface temperature must be below 40°C.
 - 3.** The surface temperature must be 2°C higher than the Dew point Temperature.

EPDM389974X2 V1.1

YUNG CHI PAINT & VARNISH MFG. CO., LTD.

No.26, Yen Hai 3rd Road, Kaohsiung, Taiwan.
<http://www.rainbowpaint.com.tw>

TEL:886-7-8713181
FAX:886-7-8715443