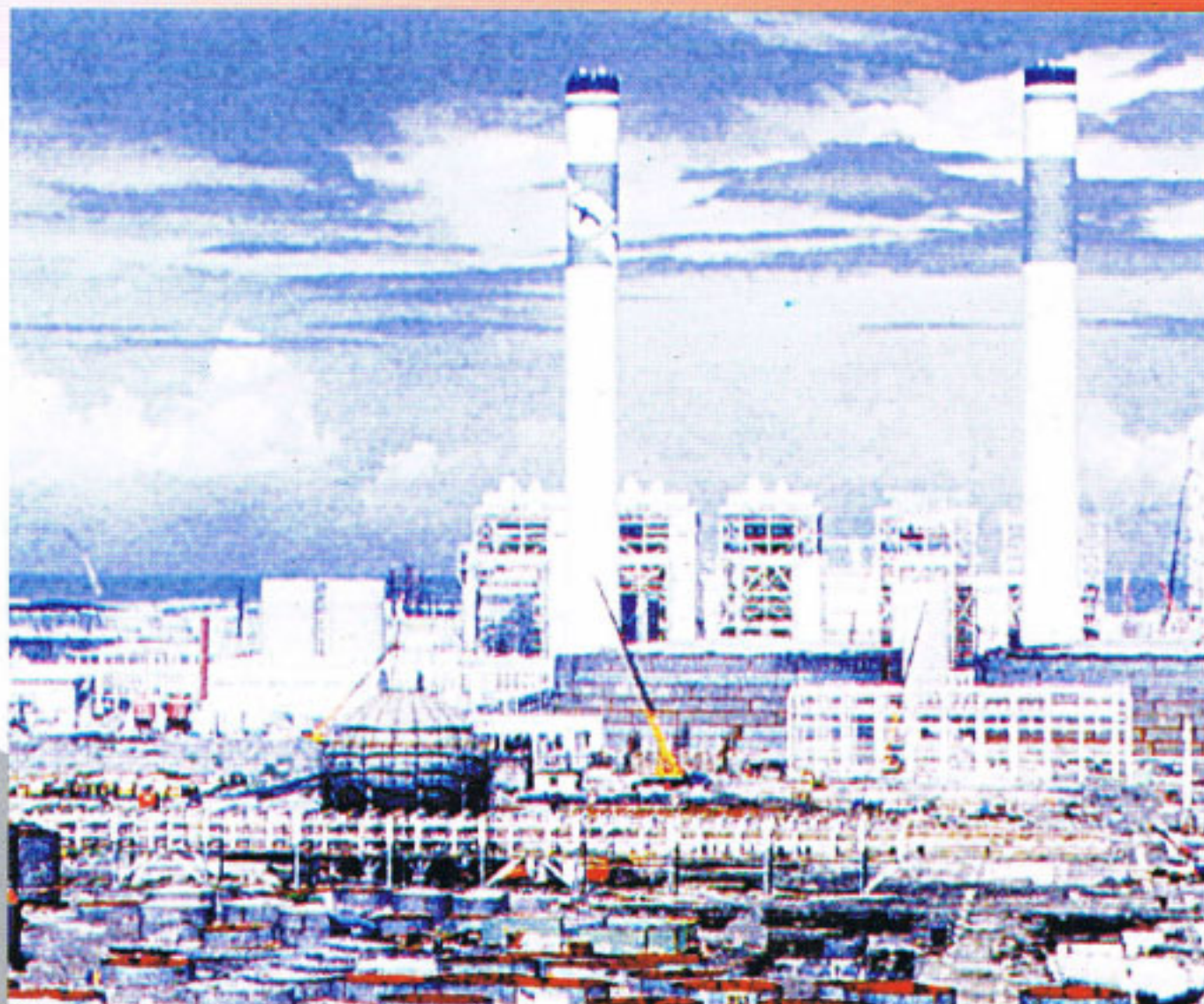


FIRECUT



FIRECUT *F - 100*

Fire Protection For Steel Structures
High Density - Exterior



- FIRECUT F-100 Fire Protection For Steel Structures (exterior)



FIRECUT F-100 (High Density) The cementitious fire protection coatings of **FIRECUT F-100** is designed for steel structures so as to have excellent adhesion to all substrates for exterior (exposed) usage. **FIRECUT F-100** contains asbestos-free inorganic components such as portland cement, vermiculite and chemical resistance special fiber, which together possess the characteristics of excellent weatherability. In addition, it is resistant to abruptly increased temperatures and polluted environments. It is the best cementitious mixture for fire-protection coatings for industrial facilities and chemical plants.

- No Asbestos & Smoked Development



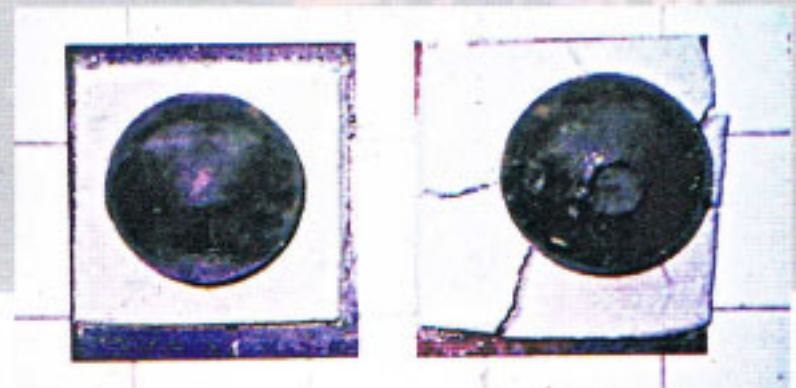
From the test by Union Chemical Lab of Industrial Technology Research Institute, it shows that **FIRECUT F-100** does not contain any asbestos.

FIRECUT F-100 has passed the test in accordance to ASTM E84 standard (Fire Hazard), the smoke developed is zero.

- No Corrosive

Due to the components of **FIRECUT F-100** can prohibit the oxidation of iron. It is not corrosive to the steel substrate.

- High Strength



Due to containing the fiber, **FIRECUT F-100** is tough and impact-resistant and no cracking can be observed after suffering a heavy impact. After it had been burned in the fire for 3 hours, the burned coating kept excellent strong physical properties and was not chipped or destroyed. This ability demonstrates that it will not be destroyed by the occurred wind-storm in fire accidents.

• Easy Installation



FIRECUT F-100 has an excellent adhesion ability to steel substrates, thus it can be sprayed on the steel substrate without precoat or adhesion promoters.

• Exterior Usage



• Standard Fire Test

FIRECUT F-100 shows excellent rating compared to the equivalent products, classified to U.S. by Underwriters Laboratories Inc. (UL) according to the standard of ASTM E119(UL263) and NFPA 251.

• UL1709 (Rapid Rise Fire Test)



FIRECUT F-100 was tested by the UL in U.S. according to the standard of UL 1709 (Rapid Rise Fire Test of Protection Materials for structural Steel and weatherability tests). Fire resistance was designed for protecting structural members subject to petrochemical exposure fires.

Due to the components of high chemical resistance, **FIRECUT F-100** can be coated for exterior steel structures that are exposed to polluted environments. After a long-term exposure, **FIRECUT F-100** still showed good physical properties and free-protecting ability. It has passed the weatherability tests such as aging; high humidity; industrial atmosphere (CO₂ - SO₂ air mixture); salt spray; and combination of wet, freeze and dry cycling exposures. etc. conducted by the UL in U.S. according to UL 1709.

• Automatic Production

FIRECUT F-100 is mass produced by totally automatic machines, so that it can be reliability supplied to customers.



The factory is also certified by ISO 9001.

FIRECUT F-100 was made in accordant to ASTM standard for the performance characteristics listed below critical to the long term viability of your fireproofing.

- Specification for High Density Fireproofing Product - Exterior -

PRODUCT	Firecut Type F-100 (High Density)	Test Method
DRY DENSITY	800 kg/m ³ (50 PCF)	ASTM E605
BOND STRENGTH	10,000 PSF	ASTM E736
COMPRESSIVE STRENGTH	80,000 PSF	ASTM E761
AIR EROSION	0.00 g/ft ²	ASTM E859
CORROSION	Non-Corrosive On Bare Shop Coated Steel	ASTM E937
BOND IMPACT	No Cracking Spalling or Delamination	ASTM E760
DEFLECTION	No Cracking Spalling or Delamination	ASTM E759
FIRE HAZARD	Flame Spread Index : 0 Smoked Development : 0	ASTM E84
PH	12	When Wet

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