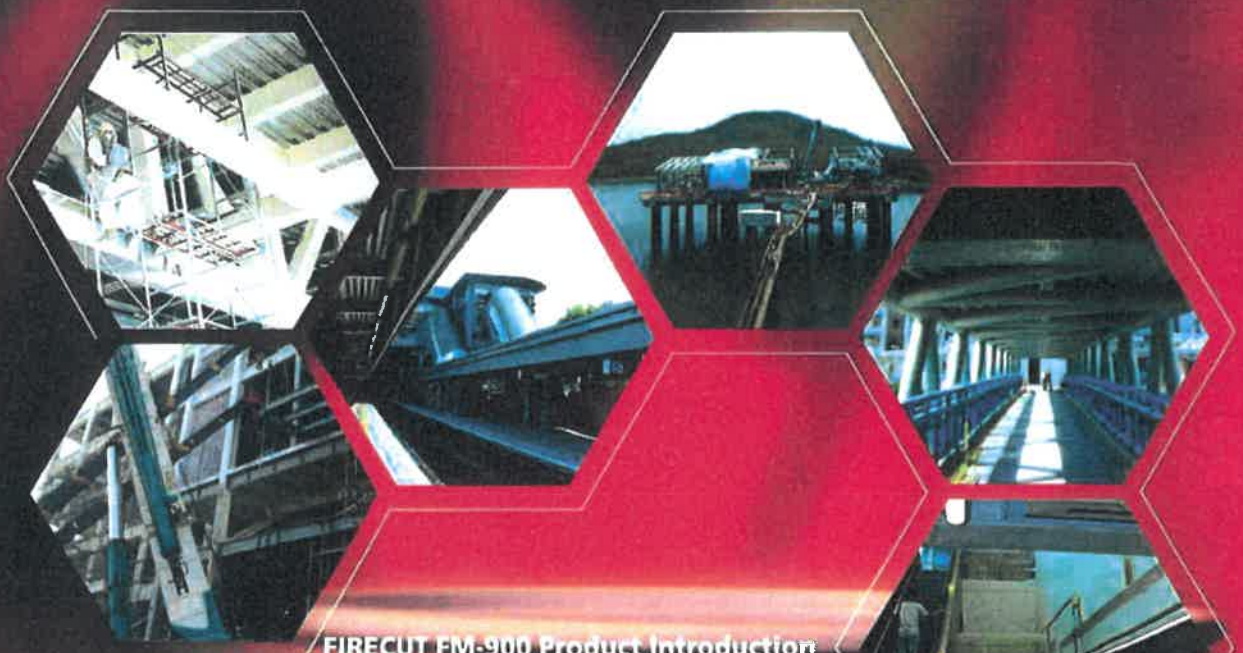
2 Hours Fire Protection for steel structure



FIRECUT FM-900 Product Introduction

FIRECUT FM-900 Solvent-based Intumescent Fire-resistance Mastic Coating has been certified by two Major U.K. Fire Testing Laboratories, i.e. Warrington Fire Research Centre (WFRC) and BRE Centre for Fire and Security Testing (LPC Laboratories) according to BS 476 : Part 20 & Part 21 Standards to achieve 2 hours fire protection on structural steel sections including : I - sections, rectangular & circular hollow beams and columns.

1. Smooth and pleasant surface
2. No asbestos content
3. Easy to apply and suitable for airless spray, brush and paint roller
4. Excellent fire protection performance
5. Adequate supply, stable quality and excellent after-sales service
6. Third party accreditation by CERTIFIRE (CF 249) on fire resistance products
7. Complete coating system supplied from the same manufacturer, i.e. Rainbow Primer + FM-900 + Rainbow Topcoat



RAINBOW 虹牌油漆

TÜV CERT ISO 9001:2000 Cert. No. 01 100 6507

CERTIFIRE

FIRECUT

Job Reference

- KCRC Lo Wu Station Platform 4 Link Deck & Road/Slope Works
- KCRC Improvement Works at Lo Wu Terminal Building Departure Hall Expansion - Package A
- School Improvement Programme, AL L340 - Hung Hom Kai Fong Association Primary School - A.S.D.
- Jockey Club HSBC WWF Hong Kong Marine Life Centre at Hoi Ha Wan
- Conversion of Centre Street Market Stage II - A.S.D.
- Tsing Yi Area 10 Phase 3 Footbridge - H.K. Housing Authority
- Student Quarters at New Asia College, C.U.H.K. - Linkbridge
- MTRC Kowloon Station Development Package 4 - Fuel Tank Room

瑞益防火建材
Sherex Fire-proof Material Co.
瑞益工程有限公司
Sherex Engineering Limited

ISO 9001:2008 Certificate No:Q595
ISO 14001:2004 Certificate No:E280
註冊小型工程承建商(公司)
註冊編號: MWC5047/2011

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Shop: G/F., 1223 Canton Road , Kowloon, Hong Kong
香港九龍廣東1223號地下(近太子道西)

YUNG CHI PAINT & VARNISH MFG. CO. LTD.

THE LARGEST PAINT MANUFACTURER IN TAIWAN

FOUNDED IN	: 1951
REG. CAPITAL	: NT$ 1.562 Billion
EMPLOYEE	: 584
PRODUCTION CAPACITY	: 90,000 M/T per year
PLANT SITE AREA	: 68,000 m^2
PLANT BUILDING AREA	: 52,000 m^2
MAIN PRODUCTS	:



Rainbow Brand Marine Coatings, Protective Coatings, Maintenance Coatings, Architecture Coatings, Lacquer Enamel, Baking Enamel, Fire Retardant Coatings, Fire Protective Coatings, Coil Coatings, Container Coatings, Special Coatings

MAIN PRODUCTION FACILITIES :

Synthetic Resin Kettles
High Speed Dissolvers
Triple Roller Mills
Ball Mills
Sand Mills
Basket Mills
Dyno Mills
Diamix
Auto Packing System



LICENCE AGREEMENT :

(1) Ameron Paint, Inc. USA.
(2) Sigma Coatings, Belgium
(3) Sigma Coatings, Netherlands



FIRECUT FM-900 — SOLVENT BASED INTUMESCENT FIRE RESISTANCE MASTIC COATING

A single pack solvent based intumescent coating that based on excellent weatherability of pure acrylic resin along with special pigments and additives. On exposure to fire the intumescent coating softens and a chemical reaction takes place causing an expanding char to be formed. The char has excellent insulating properties and low thermal conductivity, thereby providing the steel substrate with an effective barrier against the rapid temperature rise which may cause critical failure of the steelwork.



COMPETITIVE ADVANTAGES :

- ☞ Cost effective Fire Protection System for Structural Steelwork
- ☞ Suitable for Internal & External Purposes
- ☞ Hp/A Factor for Hollow Steel Sections can cover up to 156 m^{-1}
- ☞ Professional Recommendations on Coating Systems to ensure Total Customer Satisfaction
- ☞ Approved Applicators to ensure Coating Application Performance and Project Traceability
- ☞ Strong Research & Development Capability
- ☞ Well-established Manufacturer to provide a wide variety of products
- ☞ Strong Production Capacity, i.e. annual capacity of 90,000 M/T

TECHNICAL DATA :

Application Method:	Airless Spray, Brush
Color Availability:	Grayish White
Finish:	Flat
Flash Point:	Above 23°C
Specific Gravity:	1.35 +/- 0.05 Kg/L
Solid Contents:	(70 +/- 3) % by wt.
Drying Time:	30 min. by touch
Overcoating Intervals:	Airless Spray > 4 hrs Brush > 1 hr

RAINBOW PROTECTIVE COATING SYSTEMS

Example I – For Steel Bridge	Exposed Steel Structure	Internal Steel Structure
	SP-09 Cathozinc Shop Primer IZ-01 Inorganic Zinc Rich Primer EP-02-1 Epoxy Red Oxide Primer EP-20 Epoxy M.I.O. Primer UP-04 Polyurethane Coating OR 5400F Yung Flon Paint (Fluoropolymer Coating)	SP-09 Cathozinc Shop Primer IZ-01 Inorganic Zinc Rich Primer EP-06 Epoxy Tar, HB OR EP-66 Epoxy Zinc Phosphate Primer

Example II – For Blasted Steel	External Steel Structure	Internal Steel Structure
	EP-03 AA Epoxy Zinc Rich Primer EP-999 High Solids Epoxy Coating UP-04 HS Polyurethane Coating OR 5400F Yung Flon Paint (Fluoropolymer Coating)	EP-03 AA Epoxy Zinc Rich Primer EP-20 Epoxy M.I.O. Primer EP-04 Epoxy Topcoat OR EP-19 Epoxy Topcoat HB

Example III – For Galvanized Steel	Example IV – For Galvanized Steel	Example V – For Galvanized Steel
		
External Steel Structure : EP-1020 Epoxy Alloy Primer UP-04 Polyurethane Coating	Internal Steel Structure : EP-1020 Epoxy Alloy Primer 1030 Water-based Epoxy Topcoat	External Steel Structure : SP-02 Wash Primer EP-20 Epoxy M.I.O. Primer UP-04 Polyurethane Coating

Example VI – For Rusted Steel	Example VII – For Concrete Structure	Example VIII – For Coastal Facilities
		
700 One Pack Polyurethane Maintenance Primer	5400F Yung Flon Paint (Fluoropolymer Coating)	1085 Epoxy Splash Zone Cladding

Paint Specialist *in* coating system



FIRE PROTECTION & ACOUSTIC COATINGS

- FIRECUT F-1 & F-100
- UL Tested according to ASTM E119 (UL263) and ASTM E84
- Assessment based on BS 476 Part 21
- Acoustic testing according to ASTM C423



PROTECTIVE COATINGS

Systems compatible with FIRECUT FM-900 Intumescent Coating

1. For external environment :
   - Rainbow SP-02 Wash Primer
   - Rainbow EP-20 Epoxy M.I.O. Primer
   - FIRECUT FM-900 Intumescent Coating
   - Rainbow EP-1060 Epoxy Middle Coat
   - Rainbow UP-04 Polyurethance Coating or
   - Rainbow 5400F Yung Flon Paint

   (Fluoro Carbon Paint up to 15 years guarantee)

2. For internal environment :
   - Rainbow EP-1020 Alloy Primer
   - FIRECUT FM-900 Intumescent Coating
   - Rainbow 1030 Water-based Epoxy Coating







RAINBOW 虹牌油漆

TÜV CERT
ISO 9001:2000
Cert. No. 01 100 6507

FLOORING COATINGS

- Rainbow EP-101 ~ EP-909 Systems
- Rainbow EP-505 System includes Rainbow 1073 Epoxy Clear Cement Primer & Rainbow 1015 Solventless Epoxy Coating





DECORATIVE & WATERPROOFING COATINGS

Coatings such as 406, 410, 421, 450 are tested according to BS 476 Part 7 Class 1

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