

FIRECUT FM-1000

SOLVENT-BASED INTUMESCENT FIRE-RESISTANCE MASTIC COATING

TYPE Solvent-based acrylic resin with special fire-resistance pigments and additives, and is CB Group Super Thin Type Fire Protection Coating. When FIRECUT FM -1000 encounters fire or heat, it starts to react and gradually forms a cake-like char layer. This char layer can insulate conduction of heat so as to slow down the time that steel to reach critical temperature, thus achieve the purpose of protecting steel structure.

USES Achieve 30, 60, 90, 120 minutes fire protection on structural steel Sections such as steel beams & columns.

CHARACTERISTICS

1. Low temperature response: When the temperature is reached about 150°C, it will response immediately; It will be intumescent and forms a cake-like char layer as the temperature gets high.
2. No asbestos content: Absolutely no asbestos, to ensure body health.
3. Smooth and pleasant surface: Excellent surface finish on coated surface, can be used together with different types of topcoats in different colors, thus provides fire protection and decorative functions.
4. Easy to apply: Wet film thickness can reach 1000 µm or above without sagging, quick drying and short over-coating intervals.

TECHNIQUE STANDARD

COLOR	White
DRYING TIME	Set-to-touch 1 hrs. Dry hard 3 hrs.
STORAGE SHELF LIFE	Minimum 2 year under normal storage conditions.
INITIAL DRYING CRACK	No crack
RESISTANCE	Up to 0.85 MPa
VISCOSITY	Deflection L/200, no peeling off on surface coating
VIBRATION RESISTANCE	Deflection L/100, no peeling off on surface coating
FLEXURAL RESISTANCE	Soaked 24 hours, no peeling off on surface coating
WATER RESISTANCE	15 cycles of freeze-thaw, no chalking, cracking, peeling off, and blistering
FREEZE-THAW	on surface coating.
RESISTANCE	

HEAT RESISTANCE (1) Passed the examination of "China fire-extinguishing systems" and "China National Center for Quality Supervision and Testing of Fireproof Materials (CNAACL No.0179)". In accordance to GB14907-94 steel structure fire-proof coating.

Testing Report No.	Coating Film Thickness	Testing Results
No.2002-2313	0.44mm	Heat resistance is up to 0.85 hours (51 Minutes)

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No.2002-2314	1.36mm	Heat resistance is up to 1.25 hours (75 Minutes)
No.2002-2315	1.68mm	Heat resistance is up to 1.72 hours (103 Minutes)

(2) Passed the examination "Quality Supervision and Testing of Fire Building Materials (CNACL No. 0170)". In accordance to GB14907-2002 steel structure fire-proof coating.

Testing Report No.	Coating Film Thickness	Testing Results
No.20023181	2.19mm (including anti-rust paint 0.08mm)	Heat resistance is up to 2.03 hours (122 Minutes)
No.20023182	2.78mm (including anti-rust paint 0.09mm)	Heat resistance is up to 2.63 hours (158 Minutes)

APPLICATION METHOD

- ◆ Airless Spray, Brush, Roller.
- ◆ Airless spray Method
 - ◇ Wet film thickness can reach 700 μ m without sagging for every spray.
 - ◇ Between first and second coating intervals shall be in 3 to 5 hours, or above 72 hours; other coating intervals shall be above 8 hours.
 - ◇ Airless spray equipment : Equipment Type : 45 : 1 or more; Tip Size : 0.023 -0.027 ;Operating Air Pressure (Twice) : 45-65 psi.
 - ◇ Air Compression Min. 5 HP.
- ◆ Brush and Roller
 - ◇ The dry film thickness can be reached at most 0.2mm D.F.T. for every brush and roller methods.
 - ◇ Between first and second coating intervals shall be in 1 to 2 hours, other coating intervals shall be above 4 hours.
 - ◇ In any 24-hr interval, brush and roller application at most can only be done four times; feasible maximum thickness should not beyond 0.8mm.

In accordance to "Regulation of application technology of fire resistive coating for steel structure and other relevance standards" for construct and acceptance test. Its heat resistance, coating film thickness, theoretical coverage and number of coating as following:

CONSTRUCTION KEY POINT

heat resistance (Min)	30	60	90	120	150
film thickness (mm)	0.30	0.80	1.50	2.10	2.55 (*Note)
theoretical coverage (kg/m ²)	Min. 0.5	Min. 1.5	Min. 2.6	Min. 3.5	Min. 4.7

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虹牌



油漆

No. of coatings	Brush and Roller	1-2	4-5	6-7	7-8	8-9
	Airless spray	1	2	3	4-5	5-6

(*Note) It should be covered with Fiber Glass cloth in 150 minutes fire-resistance.

SUBSEQUENT PRIMERS 1006 Epoxy zinc rich primer, 1076 Epoxy zinc phosphate primer, or other equivalent products.

SUBSEQUENT TOPCOATS 1030 Water-based epoxy clear primer, 745 PU topcoat, 1001 Epoxy topcoat, or other equivalent products.

ENVIRONMENT The humidity shall be lower than 85%, and the temperature shall between

CONSTRAINTS 5°C - 40°C to construct.

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