

永記造涼工業(起南)有限公司 YUNG CHI PAINT & VARNISH MFG. (VIETNAM) CO.,LTD

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FIRECUT FM-1000

SOLVE	ENT-BASED INTUM	ESCENT FIRE	E-RESISTANCE MASTIC COATING	
TYPE	Solvent-based acrylic resin with special fire-resistance pigments and additives,			
	and is CB Group Super	Thin Type Fire Pro	tection Coating. When FIRECUT	
	FM -1000 encounters fire	e or heat, it starts t	o react and gradually forms a	
	cake-liked char layer. Th	is char layer can ir	sulate conduction of heat so as to	
	slow down the time that	steel to reach critic	al temperature, thus achieve the	
	purpose of protecting ste	el structure.		
USES	Achieve 60, 90, 120 minutes fire protection on structural steel			
	Sections such as steel b	eams & columns.		
CHARACTERISTICS	1. Low temperature resp	onse: When the te	mperature is reached about 150 $^\circ\!\mathrm{C}$,	
	it will response immediately; It will be intumescent and forms a cake-liked			
	char layer as the temp	erature gets high.		
	2. No asbestos content:	Absolutely no asbe	estos, to ensure body health.	
	3. Slight film thickness: C	Dnly 0.44mm dry fi	Im thickness for 51 minutes fire	
	·	surface: Excellent	surface finish on coated surface, can	
	 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.			
		n thickness can rea	ach 700 μm or above without	
	sagging, quick drying an			
TECHNIQUE STANDARD				
COLOR	White			
DRYING TIME	Set-to-touch 1 hrs.	Drv har	d 3 hrs	
STORAGE SHELF LIFE	Set-to-touch 1 hrs. Dry hard 3 hrs. Minimum 2 year under normal storage conditions.			
INITIAL DRYING CRACK	-	g		
RESISTANCE				
BOND STRENGTH	Up to 0.85 MPa			
VIBRATION ESISTANCE	Deflection L/200, no pee	ling off on surface	coating	
FLEXURAL ESISTANCE	-	Deflection L/100, no peeling off on surface coating		
WATER RESISTANCE	Soaked 24 hours, no peeling off on surface coating			
FREEZE-THAW	15 cycles of freeze-thaw, no chalking, cracking, peeling off, and blistering 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 (CNACL No.0179)". In accordance to GB14907-94 steel			
	structure fire-proof coating.			
	Testing Report No.	Coating Film	Testing Results	
		-	-	



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	Thickness	
No.2002-2313	0.44mm	Heat resistance is up to 0.85 hours (51 Minutes)
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	Heat resistance is up to 2.03 hours
	(including anti-rust paint 0.08mm)	(122 Minutes)
No.20023182	2.78mm	Heat resistance is up to 2.63 hours
	(including anti-rust paint 0.09mm)	(158 Minutes)

APPLICATION METHOD

Airless Spray, Brush, Roller.

- Airless spray Method
 - \diamond Wet film thickness can reach 700µm 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.

CONSTRUCTION KEY

POINT

Y 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:

heat resistance (Min)		60	90	120
film thickness (mm)		0.68	1.35	2.10
theoretical coverage (kg/m²)		Min. 1.35	Min. 2.65	Min. 3.35
No. of	Brush and Roller	1-2	2-3	3-4
coatings	Airless spray	1-2	2	3

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

1006 Epoxy zinc rich primer, 1076 Epoxy zinc phosphate primer, 1020 Epoxy Alloy primer or other



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SUBSEQUENT PRIMERS equivalent products.

	1030 Water-based epoxy clear primer, 745 PU topcoat, 1001 Epoxy topcoat, or other equivalent
SUBSEQUENT	products.
TOPCOATS	
	The humidity shall be lower than 85%, and the temperature shall between
ENVIRONMENT	5° C - 40° C to construct.
CONSTRAINTS	

Edition: 1.1/ CTM030925