



RAINBOW

WATER-BASED INTUMESCENT FIRE-RESISTANCE MASTIC COATING

PRODUCT NUMBER	FM-906												
TYPE	The water-based intumescent paint based on nonflammable resin with special pigment and additives also has a fire protection efficacy. The paint film will be to form a foam layer like sponge when occurred to the fire. This foam layer is a good hot-block to reduce the temperature rising speed of steel structures.												
USES	Used for beams and columns of steel structures and the fire protection performance.												
CHARACTERISTICS	<ol style="list-style-type: none">1.Low reactive temperature : When temperature was reached to 200°C above, the paint film may form a foam layer with the increasing room temperature to rapidly expand hot-block for several times to protect structures safely.2.No asbestos ingredient : Contents did not have asbestos fiber.3.Thin paint film : Excellent fire protection in only thin paint film then can reach the fire protection.4.Smooth and good appearance : The finish has good smooth film also may top various color paints.5.Be able to high-build and easy apply.												
FINISH	Flat												
COLOR	White												
SPECIFIC GRAVITY	1.30 ± 0.1 Kg/L (25°C)												
FLASH POINT	Above 100°C												
DRYING TIME	Set-to-touch not over than 1 hr (25°C)												
OVERCOATING INTERVALS	Spray : min. 4 hrs. Brush : min. 1 hr.												
SOLIDS CONTENT	NV : 69% ± 3%												
THEORETICAL COVERAGE	The weight of unit area, wet film thickness and dry film thickness for per coat to refer as follows :												
	<table border="1"><thead><tr><th>Application method</th><th>Wt. of unit area (gm/m²)</th><th>W.F.T. (mm)</th><th>D.F.T. (mm)</th></tr></thead><tbody><tr><td>Brush</td><td>600</td><td>0.44</td><td>0.26</td></tr><tr><td>Spray</td><td>810</td><td>0.60</td><td>0.36</td></tr></tbody></table>	Application method	Wt. of unit area (gm/m ²)	W.F.T. (mm)	D.F.T. (mm)	Brush	600	0.44	0.26	Spray	810	0.60	0.36
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STANDARD OF FIRE TEST	<ol style="list-style-type: none">1. BS 476 Part 21 Methods for determination of the fire resistance of loadbearing elements of construction.2. Correspond with CNS 117283. CSN 14705-14. Correspond with CNS 15080 low VOC5. Correspond with Healthy Green Building Material.												
PRECEDING COATS	No.1076 Epoxy Zinc Phosphate Primer (EP-66) ; or other Yung Chi approved primers or equivalent.												
SUBSEQUENT COATS	Water-based topcoats (No.406 FM) ; or other Yung Chi approved topcoats or equivalent.												
STORAGE SHELF LIFE	Minimum 12 months under normal storage conditions												
APPLICATION METHOD	Airless Spray or Brush												
FOR AIRLESS SPRAY	Tip Size : 0.023"~0.027" ; Air Pressure : 50~80 psi ; Pump Ratio : 45 : 1 or greater												
NOTE	<ol style="list-style-type: none">1. Maximum 2 times by spray or 4 times by brush within 24 hours.2. Adhered moisture, grease, rust, dirt or loose paints film on substrate must be cleaned thoroughly.3. Avoid applying the paint in temperature low to 5°C or humid exceed 85% RH , particularly, the wet surface must be thoroughly dried.4. The fire resistance mastic coating can not be drenched with rain directly before applying the topcoat.												

EPDM383815X1 V1.2

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