



RAINBOW

SOLVENT-BASED INTUMESCENT FIRE RESISTANCE MASTIC COATING

PRODUCT NUMBER	FM-900												
TYPE	The mastic coating based on acrylic resin, special pigment and additives also has a fire protection efficacy. The paint film will be expanded to form a foam layer like sponge when occurred to the fire or heat. The 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 will vary with thickness of paint film into 30, 60, 90 and 120 minutes.												
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 had no asbestos and no any fiber.3. Thin paint film: Excellent fire protection in only thin paint film then can reach the fire protection performance.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 application.												
FINISH	Flat												
COLOR	Grayish white												
MASS DENSITY	1.30 ± 0.07 Kg/L												
FLASH POINT	Above 30°C												
DRYING TIME	Set-to-touch 1/2 hr.												
OVERCOATING INTERVALS	Spray: min. 4 hrs. Brush: min. 1 hr.												
SOLIDS CONTENT	NV : 73.0 ± 3.7% VS : 68.0 ± 3.4%												
PRECEDING COATS	No.1076 Epoxy Zinc Phosphate Primer (EP-66, Min. DFT 60 μm) , No 1020 Epoxy Alloy Primer (Min. DFT 25 μm) ; or other Yung Chi approved primers or equivalent.												
SUBSEQUENT COATS	Epoxy Topcoats ; Epoxy Middle Coatings + Polyurethane Topcoat ; or other Yung Chi approved topcoats or equivalent.												
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>0.30</td></tr><tr><td>Spray</td><td>1200</td><td>0.89</td><td>0.61</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	0.30	Spray	1200	0.89	0.61
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STANDARD OF FIRE TEST	Meet the standard of BS476 Part 21 and UL263 at least 2 hrs.-rating.												
STORAGE SHELF LIFE	Minimum 2 years under normal storage conditions.												
APPLICATION METHOD	Airless Spray, 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, a wet surface must be thoroughly dried.4. The primers or topcoats of application please refer to detailed data sheets.5. The fire resistance mastic coating can not be drenched with rain directly before applying the topcoat.												

PDM383815XX V1.3

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