



# RAINBOW

## SOLVENT-BASED INTUMESCENT FIRE-RETARDANT COATING

PRODUCT NUMBER	FS-31
TYPE	The solvent-based fire retardant coating based on acrylic resin with special pigment and additives, which will be inflated with the fire or heat to form a fine foam layer. This foam layer can insulate substrates to contact with the fire, therefore consumedly cut down flammability of flammable substrates and retard the transmission of heat and the expansion of fire.
USES	Used for the interior wood furniture, steel and towery tanks.
CHARACTERISTICS	<ol style="list-style-type: none"><li>1. Very fast drying.</li><li>2. Inflated above several times when occurred the fire to rapidly reach the fireproof and fire-retardant effects.</li><li>3. Carbonized foam body can resist high temperature up to 1000°C</li></ol>
COLOR	White or desired colors
SPECIFIC GRAVITY	1.40 ± 0.05 Kg/L
FINISH	Flat
VISCOSITY	100 ± 10 KU (25 °C)
DRYING TIME	Set-to-touch 1 hr.                      Dry hard 3 hrs. (25 °C)
OVERCOATING INTERVALS	Min. 2 hrs.
NUMBERS OF COATING	<ol style="list-style-type: none"><li>1. CNS 6532 class 3 : min. 3 times</li><li>2. ASTM E84 class A : min. 2 times</li></ol>
OPTIMUM FILM THICKNESS	<ol style="list-style-type: none"><li>1. CNS 6532 class 3 : D.F.T. above 330 microns</li><li>2. ASTM E84 class A : D.F.T. above 150 microns</li></ol>
THEORETICAL COVERAGE	<ol style="list-style-type: none"><li>1. CNS 6532 class 3: 727 g/m<sup>2</sup> (7.2 m<sup>2</sup>/Gal)</li><li>2. ASTM E84 class A: 150 ft<sup>2</sup>/Gal (13.9 m<sup>2</sup>/Ga · l)</li></ol>
THINNER	No.736 Polyurethane Thinner
THINNING RATE	Max. 20%
VOLUME SOLIDS	Above 60%
STORAGE SHELF LIFE	Minimum 1 year under normal storage conditions.
APPLICATION METHOD	Brush, Air spray
FIREPROOF TEST	Meet CNS 6532 class 3 and ASTM E84 class A (UL File No. R13583)
NOTE	<ol style="list-style-type: none"><li>1. Before application, stir paint evenly, when paint is too thick, polyurethane thinner within specified quantity can be added.</li><li>2. Adhered moisture, grease, rust, dirt or loose paints film on substrate must be cleaned thoroughly.</li><li>3. Rough the smooth surface with sand papers and avoid applying the paint in humid exceed 85% RH or temperature low to 5°C.</li><li>4. The fireproof effect and dry film thickness of fire retardant coating is in direct proportion, namely the dry film thickness is more thick and the intumescent effect of paint film is better, the fireproof effect is better too.</li></ol>

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