



RAINBOW

WATER-BASED INTUMESCENT FIRE-RETARDANT COATING

PRODUCT NUMBER	FW-30
TYPE	The water-based fire retardant coating based on nonflammable 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 interior wood furniture, RC wall of buildings and interior decoration.
CHARACTERISTICS	<ol style="list-style-type: none">1. Very fast drying for recoating in a short time.2. Use the water thinner without any pollution.3. Inflated above several times when occurred the fire to rapidly reach the fireproof and fire-retardant effects.4. Carbonized foam body can resist high temperature up to 1000°C
FINISH	Flat
COLOR	White or desired colors
SPECIFIC GRAVITY	1.35 ± 0.05 Kg/L
VISCOSITY	90 ± 10 KU (25 °C)
DRYING TIME (25 °C)	Set-to-touch 0.5 hr. Dry hard 2 hrs. (25 °C)
OVERCOATING INTERVALS	Min. 2 hrs.
NUMBERS OF COATING	<ol style="list-style-type: none">1. CNS 6532 class 3 : min. 3 times2. ASTM E84 class A : min. 2 times
OPTIMUM FILM THICKNESS (PER COAT)	<ol style="list-style-type: none">1. CNS 6532 class 3 : Wet 205 microns / Dry 110 microns2. ASTM E84 class A : Wet 150 microns / Dry 80 microns
SUGGESTION OF PAINT FILM	<ol style="list-style-type: none">1. CNS 6532 class 3 : D.F.T. above 327 microns2. ASTM E84 class A : D.F.T. above 160 microns
THEORETICAL COVERAGE	<ol style="list-style-type: none">1. CNS 6532 class 3 : 734 g/m² (6.9 m²/Gal)2. ASTM E84 class A : 150 ft²/Gal (13.9 m²/Gal)
THINNER	Water
THINNING RATE	Max. 25%
VOLUME SOLIDS	Above 60%
STORAGE SHELF LIFE	Minimum 6 months under normal storage conditions.
FIREPROOF TEST	Meet CNS 6532 class 3 and ASTM E84 class A (UL File No. R13583)
APPLICATION METHOD	Spray, Brush.
NOTE	<ol style="list-style-type: none">1. Before application, stir paint evenly, when paint is too thick, water can be added within specified quantity2. Adhered moisture, grease, rust, dirt or loose paints film on substrate must be cleaned thoroughly.3. Rough the smooth surface with sand papers and avoid applying the paint in humid exceed 85% RH or temperature low to 5°C.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.

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