



# RAINBOW

## WATER-BASED INTUMESCENT MASTIC

PRODUCT NUMBER	FW-30M
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 to reach effects of fire retardant and cables protection.
USES	Used for the wires and cables.
CHARACTERISTICS	<ol style="list-style-type: none"><li>1. Very fast drying and without toxic smoke generating while burning.</li><li>2. High build fire retardant coating with high effective fireproof ability.</li><li>3. Carbonized foam body can resist high temperature up to 1000°C</li><li>4. No contents of asbestos and mineral asbestos.</li><li>5. No contents of Plasticizer..</li><li>6. No influence on the electric current capacities of cables.</li><li>7. PH value is between 7 and 9 without corrosion to the surface of cables.</li></ol>
FINISH	Flat
COLOR	Grayish white
SPECIFIC GRAVITY	Above 1.25 Kg/L
DRYING TIME	Set-to-touch 2 hrs.                      Dry hard 24~48 hrs. (25 °C)
OPTIMUM FILM THICKNESS	Wet 500 microns                      Dry 270 microns (per coat)
OVERCOATING INTERVALS	Min. 2 hrs.
NUMBERS OF COATING	Min. 5 times
SUGGESTION OF PAINT FILM	Above 1.6mm ( 1/16 inch ) ( DFT )
THEORETICAL COVERAGE	1.92 Kg/m <sup>2</sup> ( 2.5 mi/Gal )
VOLUME SOLIDS	Above 50%
THINNER	Water
THINNER RATE	Below 5%
NON-VOLATILE CONTENT	Above 66%
STORAGE SHELF LIFE	Minimum 12 months under normal storage conditions.
FIREPROOF TEST	<ol style="list-style-type: none"><li>1. EEE 383 Part 2.5.4 Fire Test Facility and Procedure.</li><li>2. FM Approval Standard 3971.</li><li>3. IEEE 1202-2006 (UL 1581) Vertical Tray Flame Test Standard.</li><li>4. IEC 60332-3.</li></ol>
APPLICATION METHOD	Airless Spray, Brush
NOTE	<ol style="list-style-type: none"><li>1. Adhered moisture, grease, rust, dirt or loose paints film on substrate must be cleaned thoroughly.</li><li>2. The product is nonflammable and not poisonous, if contacted with human body or skin that must wash cleanly with water.</li><li>3. Avoid applying the paint in humid exceed 85% RH or temperature low to 5°C.</li><li>4. It's essential to work wearing rubber gloves and cover.</li><li>5. The fire resistance mastic coating can not be drenched with rain directly before applying the topcoat.</li></ol>

EPDM389900XX V1.2

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