

CODE: FR-1200

PRODUCT NAME:

Acrylic Water Based Intumescent Coating

DESCRIPTION:

FR-1200 is water based acrylic intumescent, for fire protection of all types of woods (solid wood, particle wood, laminated wood, etc) and communication cables. It is specially designed to resist the spread (propagation) of fire along the cable jacketing and to extend the circuit integrity of the electrical cables during fire.

When it is exposed to flames, it intumesces (swells) 70-80 times, its dry film thickness to create a protective barrier against heat.

TECHNICAL DATA:

Binder	Acrylic Latex
Pigment	Suitable pigments and fillers
Finish	Flat
Shade	White, grey
Substrate	Prepared surfaces
Volume solids	45 ±3%
Typical dry film thickness	300-500 microns
Specific gravity	1.35± 0.05 Kg/Lit
Theoretical spreading rate - one coat (at 500 microns)	0.9M ² /Lit
Application method	air less spray , brush , roller
Surface Burning (ASTM E84)	Flam Spread:5 Smoke development:35
Packing	10 kg
Shelf life	12 Months

Drying Time

Temp	Touch dry	Hard dry	Full Cured for Top Coating
15°C	80 minutes	15 hours	8 days
25°C	60 minutes	12 hours	7 days
40°C	40 minutes	10 hours	5 days

Note: Drying times are dependent on applied film thickness; all data in this catalogue are reported at recommended DFT.

FR-1200/1

SURFACE PREPARATION

The wood or cables must be dry and clean, free of dust, oils and other filth prior to application of the protective coating. Old fire protective coatings, lacquers and paints must be removed; translucent coatings and other very smooth unpainted surfaces must be sanded with fine sand paper.

-Surface preparation shall not take place in the following conditions:

- A) At temperature below 10 °C
- B) When the relative humidity greater than 85%
- C) When the metal surface temperature is less than 3 °C above the dew point
- D) Outside day light hours on exterior locations

Application Method:

This material is a one component coating and should always be mixed thoroughly with a power agitator before application. Stir during application to maintain uniformity of material. FR-1300 is supplied ready for use and should not be diluted.

Application Equipments

Air less Spray	Tip range 0.017-0.019 inch Total output pressure at spray tip not less than 141Bar (2000 psi)
Brush	Typically 150 mic can be achieved.
Roller	Typically 150 mic can be achieved.

Flush Equipment with water before and after use.

ENVIRONMENTAL CONDITIONS:

- To prevent moisture condensation during application, surface temperature must be at least 3 °C above the dew point.
- Never apply coatings under reverse environmental condition.
- In hot climate, material temperature should be 20 to 25 °C prior to mixing.
- For satisfactory cure, air and surface temperature must be above 10 °C
- Paint shall not be applied when wind speed is in excess of 7 m/s

Air temperature	10 to 40 °C
Surface temperature	10 to 50 °C
Material temperature	15 to 40 °C
Relative humidity	Max 80 %

FR-1200/2



HEALTH AND SAFETY

This product is Flammable. Keep away from heat and open flame .Keep container closed .Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

- 1-Circulate adequate fresh air continuously during application and drying.
- 2-Use fresh air masks and explosion proof equipment.
- 3- Prohibit all flames, sparks, welding and smoking.

FR-1200/3