

## BERGER FIRE RETARDANT PAINT

### PRODUCT SCOPE

Berger Fire Retardant Paint is a water-based intumescent coating for use over combustible construction material over a variety of substrates including concrete, plaster, wood and metal. In case of fire, it forms an expanded protective char in a fire that greatly inhibits flame spread and smoke development. It slows down the burn-through of combustible construction materials to help meet the building fire codes.

It contains no volatile organic components, has low odor, and is non-hazardous during application and use. It utilizes synergistic blend of non-hazardous fire retardant components to obtain its superior qualities. Berger Fire Retardant Paint is intended for interior applications with excellent adhesion to wood, dry wall and concrete. It is flexible and shows resistance against chipping, cracking, flaking and blistering. It can also be over-coated with commercial latex paints.

Berger Fire Retardant Paint meets NFPA 90A & 90B 25/50 requirements for interior applications when tested by ASTM E-84 over construction material when mentioned coverage rate is followed.

Berger Fire Retardant Paint is Class-A Fire Rated as specified below:

- a- One Hour Flame Spread Resistance for one side treated with Berger Fire Retardant Paint (tested on wood panels)
- b- Two Hours Flame Spread Resistance for two sides treated with Berger Fire Retardant Paint (tested on wood panels)

### TECHNICAL INFORMATION

|                                   |  |
|-----------------------------------|--|
| Pack Viscosity                    | 2000~5000 CPS  |
| Color                             | White  |
| Application Method                | Brush, Roller, Spray   |
| Number of Coats                   | 2~3  |
| Thinning Solvent                  | Water  |
| Cleaning Solvent                  | Water  |
| Touch Dry Time                    | 15~20 Minutes  |
| Dry Through Time                  | 48~96 Hours (Depends on Temperature)   |
| Coverage                          | 16~20 m <sup>2</sup> /Gallon (Depends on Surface Porosity and Coating Thickness) |
| Gloss                             | Matt   |
| Finish                            | Smooth   |
| Wet Paint Flammability (ASTM D93) | No Flash to Boiling (100 °C)   |

#### For Steel

| Steel Thickness | Paint DFT | Protection |
|-----------------|-----------|------------|
| 02 mm           | 01 mm     | 01 hour    |
| 01 mm           | 02 mm     | 01 hour    |
| 01 mm           | 04 mm     | 02 hours   |

#### For Wood

For wood thickness of wood must be 1 cm/higher for intumescent coating.

## SURFACE PREPARATION

Surface must be free from dust, dirt, grease, oil, heavy shoot, chalk, mildew etc. Remove all old, flaking, loose paint to avoid adhesion problem.

### New Surface Preparation

- After plastering, allow the surface to dry for minimum 12~15 weeks. Moisture contents must not exceed 15% in the plaster before application.
- After the wall is dry, sand out all imperfections with suitable sander/emery paper.
- Apply Berger Fire Retardant Paint with brush, roller or spray with recommended number of coats and recommended time intervals.

## APPLICATION INFORMATION

- For best results, apply 2~3 coats (depends on surface porosity) of Berger Fire Retardant Paint with recommended time intervals.
- Do not apply wall putty. Instead fill the holes/cracks with cement/plaster and allow drying for suitable period of time.
- Dilute the product with water as per application condition. Do not apply "Thick Coats" to avoid brush marks/sagging problem.
- Do not apply on ordinary emulsions or on glossy surfaces/enamels.

## SAFETY AND HANDLING PRECAUTIONS

- Use protective equipment while application e.g. apron, gloves, protective glasses and dust mask.
- In case of eye splashes, wash with plenty of fresh water and consult medical advice.
- In case of skin contact, wash with plenty of water. In case of skin irritation (sensitive skin), obtain medical advice.
- In case of ingestion, do not induce vomiting. Drink plenty of milk/water and immediately consult a physician.
- Store the product below 35 °C and avoid direct sunlight for a longer period.
- As long as the container is firmly sealed, the material can be kept for 12 months without deterioration.