

zeroflame®

FIRE RETARDANT PAINT

TECHNICAL DATA

PRODUCT DESCRIPTION

Zeroflame Fire Retardant Paint is a water borne fire protection coating for interior use. This coating has been successfully tested on a variety of timber substrates to BS EN13501-1:2007.

APPLICATION AREAS

Zeroflame Fire Retardant Paint can be applied to reduce the ignitability of soft and hard wood and other wood derivatives, i.e. plywood, chipboard, fibre insulation board, hard board, also on veneering $\geq 12\text{mm}$ thickness. Will help maintain the non-combustibility of surfaces such as masonry and plaster. Insulates against heat, checks fire, prevents propagation of fire and diminishes flue-gas density and flue-gas temperature. For interior use only. Not suitable for surfaces exposed to mechanical stress.

PRODUCT FEATURES

Zeroflame Fire Retardant Paint:-

- Is a water-based coating system
- Can be applied by brush, roller or spray
- Tested to BS EN13501-1:2007, B-s2,d0
- Has a matt white finish
- Where a final decorative or protective finish is required, a water borne, non-flammable paint may be used
- Can be applied over sound existing coatings
- Has a coverage rate of $3.7\text{m}^2/\text{litre}$. Wet film thickness (WFT): 270 microns. Dry film thickness (DFT): 170 microns.

TECHNICAL INFORMATION

<i>Appearance when dry</i>	Matt white
<i>Mass density</i>	Approx. 1.29 g/cm^3
<i>Solids by weight</i>	Approx. 65% (according to EN ISO 3251)
<i>VOC Content</i>	Max. 0 g/litre (2010 EU limit: 140 g/litre)
<i>Shelf Life</i>	12 months from delivery in cool and dry storage conditions and in original unopened containers.

APPLICATION INSTRUCTIONS

Preparation of coating material: Stir Zeroflame Fire Retardant Paint thoroughly until free of lumps.

Surface Preparation: Substrates must be dry (moisture content must not exceed 15%), free from dust, wax, grease, dirt, resin, etc. Existing coatings with poor adhesion must

APPLICATION INSTRUCTIONS cont...

be completely removed. Coatings containing lime, chalk or lithopone should be removed.

Application Methods:

Airless spraying - material shall be applied undiluted

- airless spray equipment with pressure ratio 30:1
- hose diameter not below 3/8"
- whipline 1.5 - 2m. NW6 may be used
- recommended tip size 0.34 – 0.66mm or 0.017 – 0.027"
- hoses must be used only for water-based coatings

Brushing/Rolling - material shall be applied in supply viscosity

Application Conditions:

Object temperature not below +10°C, to max. +40°C

Relative humidity max. 70%

Application temperature shall be at least $\geq 3^{\circ}\text{C}$ above dew point. In case relative humidity exceeds 80%, special measures must be taken to prevent condensation forming while applying.

If the moisture content of the substrate exceeds 15%, the coating is unlikely to dry and blooming may occur. Moisture content should be at or near that anticipated when in use.

Drying/Curing: At approx. 20°C temperature and 65% relative humidity approx. 6 hours. Lower temperatures and higher relative humidity may extend drying time. Allow 48 hours before overcoating

Cleaning: Immediately after use, clean the equipment with water.

HEALTH AND SAFETY INFORMATION

Please observe safety instructions on container labels and local regulations. Dangerous Goods regulation should be followed. During application in closed rooms, pits and shafts, etc. sufficient ventilation must be provided. Keep away from naked flame, including welding. In poorly lit rooms, only electric safety lamps are permitted. The installed ventilation equipment must be spark-proof. In a liquid or not fully cured state, the product contaminates water and should not be allowed to enter drains or be spilled onto open ground. All spillages and liquid waste must be removed according to local Health and Safety regulations.

For full details on Health and Safety data for this product, refer to the Safety Data Sheet, available on request.

CERTIFICATION

Zeroflame Fire Retardant Paint has been tested to BS EN13501-1:2007 on timber and composite wood substrates, B-s2,d0 being obtained.

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