

ZEROflame™ FIRE RETARDANT TREATMENT

TECHNICAL DATA

PRODUCT DESCRIPTION

Zeroflame Fire Retardant Treatment is an aqueous solution which achieves Euroclass B (BS Class 0) Fire Propagation and Spread of Flame fire protection on solid timber.

APPLICATION

Zeroflame Fire Retardant Treatment is a fire retardant system for the fire protection of hardwoods, softwoods and other cellulose based substrates. Zeroflame Treatment treated timber must only be used above the dpc level and/or above ground contact.

Trials should be carried out on decorative timber species to check any shade changes prior to the full application of the Treatment.

FEATURES

Zeroflame Fire Retardant Treatment is:-

- Moisture resistant and unaffected by humidity
- Suitable for interior and exterior use
- Unaffected by wear
- Simple specification
- Suitable for non-specialist application
- Suitable for off-site application
- Applicable by brush, roller or spray
- Non-toxic and non-allergic
- Biologically and ecologically safe
- Colourless and odourless
- Non-leaching
- Maintenance free
- Does not require overcoating accept for decoration.

TECHNICAL DATA

Name	CAS No.	Symbol and Risk	Concentration %
<i>Ferric (III) phosphate</i>	10045-86-0	<i>Xi; R36/38</i>	30%
<i>Citric Acid</i>	77-92-9	<i>Xi; R36</i>	1%
<i>Polyoxyethylene (21) stearyl alcohol</i>	9005-00-9	<i>Xi; R41</i>	0.5%
<i>Water</i>	7732-18-5	-	68.5%

This product is classified Xi – Irritant: Irritates eyes and skin.

DIRECTIONS FOR USE

Substrate: The substrate must be clean, dry and free from contamination; existing coats must be removed by stripping or sanding.

DIRECTIONS FOR USE cont....

- Application:** Approximately 3 coats depending on application method and site conditions, giving a total coverage of minimum 270ml/m². Do not mix with other solutions, stir well.
- Use brush, roller, spray (use appropriate mask when spraying), dip or vacuum method.
- After treatment of the substrate with Zeroflame Fire Retardant Treatment, the appearance of the timber is virtually unchanged.
- Drying Times:** Coats should be applied at intervals of 40-60 minutes.
- Drying time is 24 hours at 15°C.
- Minimum temperature for application is 5°C.
- Do not apply to frozen substrate.
- Maximum fire retarding capabilities achieved after 7 days.**
- Storage and Transportation:** Supplied in hermetically sealed containers and should be stored at temperatures above zero. The warranty period of storage is 2 years from date of manufacture.
- Protection Period:** Fire retardant properties will remain active for the lifetime of the substrate.
- Disposal:** Zeroflame Fire Retardant Treatment is an ecologically friendly material that can be safely disposed of as a household product.

PRODUCT SPECIFICATION

Zeroflame Fire Retardant Treatment is a patented product.

Pack sizes: 5 litre

Final Finish: Natural. Can be overcoated with certain stains, varnishes and paints. (Contact Decor Ireland for details of coatings which are suitable.)

LIMITATIONS

Zeroflame Fire Retardant Treatment achieves Class 1 only, on veneer and plywood laminates, the bonding glues resisting penetration. If Class 0 is required on such materials, Zeroflame Fire Retardant Intumescent Varnish is recommended.

Discolouration may occur on some types of timber or on heavily knotted wood. Application of a compatible varnish or stain may overcome this if it is unacceptable. Alternatively, use Zeroflame Fire Retardant Intumescent Varnish if the wood to be protected is internal.

Zeroflame Fire Retardant Treatment may not be suitable for wood-derived particle board or similar as it cannot penetrate. A sample test is recommended to check absorption. Zeroflame Fire Retardant Intumescent Paint may be more suitable.

Care must be taken to comply with the coverage rate, including allowance for wastage, as inadequate application will affect the fire protection.

CERTIFICATION

BS EN 13823 & BS EN 11925-2 Single Burning Item Euroclass B-s1-d0 (s1: Smoke Production, d0:

Issue Date 01/08/09

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CERTIFICATION

Flaming Droplets) (Equivalent to UK “Class 0” BS 475: Part 6/7)

NT 053 & NT 054 Accelerated weathering of fire retardant wood for fire testing.

Euroclass C (Equivalent to UK Class 1) for plywood.

This information is offered in good faith but without guarantee or liability. In cases of doubt, users should consult with relevant authority. Information given herein is supplied for your guidance only and is based upon the results of controlled tests and experience obtained in the application of the product referred to by Decor Ireland. As the supplier only, Decor Ireland has no control over the method or conditions of application of the product and consequently no warranties expressed or implied are intended to be given as to the coverage or performance of the products mentioned or referred to herein and no liability will be excepted for any loss, damage or physical injury from the use or application of the information, data or products mentioned or referred to herein.

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