HR-Prof

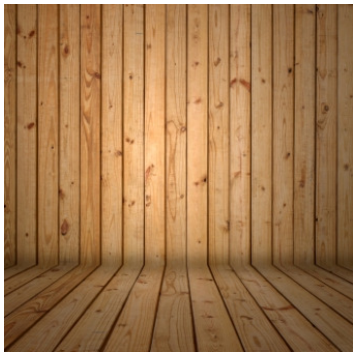
Clear Flame Retardant Treatment for Wood

PRODUCT DESCRIPTION

HR-Prof is a non-toxic flame retardant treatment for internal and external timber substrates that require Euro class B Spread of Flame (equivalent to UK class 0). This product is water based and easy to apply, possessing high diffusion properties it quickly penetrates the surface of the substrate. It does not require a protective finishing coat and can be left natural or if specified over-coated. Left naturally, timber may darken slightly.

FEATURES

- For **internal** and **external** use
- Will not leach
- Colourless and odourless
- Non-toxic
- Solvent free
- Not harmful to the environment and will not wash out from the substrate once dry
- Timber treated with HR-Prof does not react with galvanised steel, gun nails or zinc coated screws
- Critical engineering properties i.e. strength, durability, hygroscopicity and corrosivity are not compromised



HR-Prof has non-flammable properties which restrict ignition and the spread of flame. It will not wash out once dry, it is not converted into smoke when exposed to high temperatures, and carbon char is restricted to the immediate area. When exposed to increased temperatures during a fire, materials treated with HR-Prof are subject to charcoal forming, restricting the spread of flame.

TYPICAL APPLICATIONS

HR-Prof is used on cladding, staircases, trusses, joists, walls, log cabins, garages, pool enclosures, saunas and many other projects both **internal** and **external**.

STANDARDS

HR-Prof has undergone testing by an independent test laboratory and was awarded a pass for the following standards:

- BS EN 13823 & BS EN 11925-2 SBI Euro Class B-s1-d0 (equivalent to UK Class 0 BS476 Part 6 & BS476 Part 7)
- NT 053 & NT054 Accelerated weathering of Fire-Retardant treated wood for fire testing.
- Euro Class C (Equivalent to UK Class 1 & 2) for plywood.

Building Regulations: Euroclass certifications are formally incorporated into Approved Document B and regulations in the UK are legally bound to accept them in lieu of national test methods (which are also still permitted).

PREPERATION OF SUBSTRATE

The substrate must be clean, dry and free from contamination; remove existing coatings by stripping or sanding. Moisture content should be 20% or less. It is recommend that a sample of the substrate is coated to establish both absorption properties and possible colour change.

APPLICATION

The application rate is 3.7m² per litre and is usually achieved in approximately 3 coats depending on moisture content of the substrate and atmospheric conditions. Coats should be applied at intervals of a minimum of 1 hour giving a total coverage of 270ml m² (minimum). Do not mix with other solutions, stir well. Use brush, roller, spray (use appropriate mask when spraying), dip or vacuum method. Minimum temperature for application 5ºC.

OVER-COATING

If treated timber is to be over-coated we recommend testing a small area first before fully over-coating with varnish, stain or paint. Care should be taken that the fire retardant properties are not compromised, maintenance coating may in time affect the film thickness, we recommend that the film be stripped back periodically by using a hot air method. Substrate must be completely dry before over-coating.

DRYING TIMES

A minimum of 1 hour between coats. Full drying time approximately 24 hours at +20ºc / 65 relative humidity.

MAINTAINENCE

Once the treatment has been absorbed into the surface of the substrate and dried, it will last for the useful life of the substrate.

STORAGE

HR-Prof has a shelf life of 24 months and should be stored upright. The product should be stored at temperatures above zero.

TO ORDER

HR-Prof is available in 1 litre spray containers, 5 litre refill bottles and 20 litre drums.

TECHNICAL ASSISTANCE

Assistance can be obtained by calling the technical team on 08450 538989

HEALTH AND SAFETY

During application avoid contact with open wounds, eyes and mouth. In the event of accidental contact wash the affected area immediately with clean water. Safety goggles and gloves should be worn when handling and applying the material. Adequate ventilation and appropriate mask required when spraying.

A separate Material Safety Data Sheet is available.