



HYDRON
Protective Coatings Ltd

HR-Prof



CLEAR FIRE RETARDANT TREATMENT FOR WOOD

Specified and used extensively in the EU and now here in the UK

For timber substrates that require **Euro class B** Spread of Flame (**equivalent to UK class 0**) **HR-Prof** is water based ready to use solution that is absorbed into the surface of the substrate.

- 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 specified on this infant school

HR-Prof 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.

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. Materials treated with **HR-Prof** when exposed to temperatures of up to 1700°C are subject to charcoal forming, restricting the spread of flame.

HR-Prof for use on cladding, staircases, trusses, joists, walls, log cabins, garages, pool enclosures, saunas and many other projects both **inside** and **outside**.

DIRECTIONS FOR USE

Substrate: The substrate must be clean, dry and free from contamination; remove existing coatings by stripping or sanding. Best results obtained when moisture content is less than 22%.

Application: Usually 3 coats depending on moisture content of the substrate and atmospheric conditions, coats should be applied at intervals of minimum 1 hr giving a total coverage of minimum 270ml per m² (3.7 m² per litre). Do not mix with other solutions, stir well. Use brush, roller, spray (use appropriate mask), dip, or vacuum method.
Minimum temperature for application 5°C

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 also 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.

Drying Times: A minimum of 1 hour between coats. Full drying time approximately 24 hours at + 20°C / 65 relative humidity. Maximum fire retarding capabilities achieved after 7 days.
Drying times are dependent upon absorption of substrate and drying conditions. At low temperatures and / or conditions of high relative humidity, drying times will be extended.

Health & 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.
Water based product, which does not present a health hazard under normal industrial use.

Maintenance: No maintenance is required once HR-Prof has been absorbed into the surface of the substrate and dried.

SPECIFICATION:

Pack sizes: 1L, 5L, 20L and polymeric tanks of 200L and 1,000 litres.
Application: Spray, brush, roller, vacuum, dip, or flood coated.
Final finish: Natural or over-coated, substrate must be completely dry before over-coating;
We advise checking the moisture content and applying top coat to manufacturers instructions.
Disposal: Where used professionally, should be disposed of in the correct manner.
Storage: Store at temperatures above zero. Warranty period for storage 36 months.

CERTIFICATION: BS EN 13823 & BS EN 11925-2 SBI Euro class B-s1-d0.

(Equivalent to UK Class O BS 476: Part 6 & BS 476: Part 7)

NT 053 & NT 054 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 regulators in the UK are legally bound to accept them in lieu of national test methods (which are also still permitted). Follow the link below to the government web site:
http://www.planningportal.gov.uk/uploads/br/BR_PDF_ADB_2000.pdf pages 59 & 60

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