

## TECHNICAL DATA SHEET

### HPC 98 NU-FLAME CLEAR IMPREGNATION

#### DESCRIPTION:

For timber substrates that require class 0 Spread of Flame or Euro class B. Nu-Flame Clear Impregnation is a water based, ready to use solution that is absorbed into the surface of the substrate.

#### ADVANTAGES:

Nu-Flame Clear Impregnation is 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. Nu-Flame Clear Impregnation 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 Nu-Flame Clear Impregnation when exposed to temperatures of up to 1700°C are subject to charcoal forming, restricting the spread of flame.

#### USES:

Nu-Flame Clear Impregnation for use on cladding, staircases, trusses, joists, walls, log cabins, garages, pool enclosures, saunas and many other projects both inside and outside.

#### COLOUR RANGE:

Colourless. May change colour of some substrates.

#### PACK SIZE:

Single pack product, supplied in 5, 25 & 1000 litres

#### COVERAGE RATE:

2 Coats @ 8 m<sup>2</sup> per litre per coat

Or 3 Coats @ 12 m<sup>2</sup> per litre per coat.

The number of coats is dependent upon the porosity of the substrate.



#### DRYING TIME:

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.

#### PREPARATION:

Ensure surfaces to be treated are clean, free from contamination and dry.

#### APPLICATION:

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. A small area of the substrate should be tested for compatibility before the full final coat is applied.

#### EQUIPMENT CARE:

Clean equipment with water immediately after use.

#### STORAGE:

Store away from direct sunlight and sources of heat. Protect from frost.

#### SHELF LIFE:

12 months (in original sealed container).

#### HEALTH & SAFETY:

Refer to MSDS

## APPLICATION INSTRUCTIONS

**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 20%.

**Application:** Either 2 coats @ 8 m<sup>2</sup> per litre per coat, or 3 coats @ 12 m<sup>2</sup> per litre per coat depending on moisture content of the substrate and atmospheric conditions. Coats should be applied at intervals of 1 hour minimum. Do not mix with other solutions, stir well. Apply by brush, roller or spray. Minimum temperature for application 5°C

**Over-coating:** Any treated timber which is to be over-coated with a varnish, stain or paint should be tested for adhesion and compatibility purposes prior to fully over-coating.

It is advisable to overcoat with water based or acrylic decorative paint finishes to ensure that the fire retardant properties are not compromised.

**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 are 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.*

**Maintenance:** No maintenance is required once Nu-Flame Clear Impregnation has been absorbed into the surface of the substrate and dried.

### SPECIFICATION:

Pack sizes: 1L, 5L, 25L and 1,000 litre IBC's.

Application: Brush, roller, spray, 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 topcoat 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 12 months.

**CERTIFICATION:** Tested in the UK by Warrington Testing & Certification Ltd to Euroclass B: BS EN 13501: B-s2,d0  
Class 0 BS 476: Parts 6 & 7

**SBI Test: Euroclass B: BS EN 13501: B-s2,d0**

**Single Flame Test: BS EN ISO 11925-2: 2010**

**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](http://www.planningportal.gov.uk/uploads/br/BR_PDF_ADB_2000.pdf) pages 59 & 60