

# WOODSAFE® PRO™

Fire Rated Timber using Polymeric Impregnation

WoodSafe® - PRO™ is a factory applied fire rated solution used to impregnate the timber to provide fire rated timber surfaces. No on site fire treatment is required.

## PRODUCT INFORMATION

WoodSafe® - PRO™ is available:

- In various wood species.
- As boards, battens or sheets
- Any board profile from all major timber merchants.
- As finished timber supplied direct from Fireshield.

## RECOMMENDED USE

WoodSafe® - PRO™ timbers are for interior environments and achieve the following group surface rating:

**New Zealand** **Group 1-S**

WoodSafe® - PRO™ treated timbers can be used in the following environments in accordance with EN16755:

- Dry internal environments with a maximum constant relative humidity of 75%.

For exterior use, Type A cladding and internal areas with humidity over 75% / wet areas use WoodSafe® - WFX™ treated timbers.

## COATINGS

WoodSafe® - PRO™ can be coated with Fireshield® approved Resene stains, penetrating oils, paints, polyurethanes and varnishes. For the approved coatings contact Fireshield®.

## Preparation

- The surface to be coated is completely clean and dry. Remove all dust, oil, grease, loose material or other contaminants.
- WoodSafe® - PRO timbers can be lightly sanded prior to coating.
- Moisture content of the timber should not exceed 12-14% prior to coating.
- Follow coating Manufacturers technical data sheets for product application instructions. Always test coatings prior to full application on a small area first.
- Fireshield® approved coatings are tested for fire performance. Fireshield® is not responsible for any unexpected discolouration or inconsistencies in the visual appearance that may occur using an approved coating.

## TIMBER INFORMATION

### TIMBER SPECIES BOARDS & BATTENS

Species	Minimum. Thickness	Group Rating
Pine	≥12mm	Group 1-S
*Thermally modified Pine	≥12mm	Group 1-S
Western Red Cedar	≥19mm	Group 1-S
Poplar	≥15mm	Group 1-S
Birch	≥12mm	Group 1-S
Maple	≥12mm	Group 1-S
Siberian Larch	≥21mm	Group 1-S
American White Oak	≥21mm	Group 1-S

\*Contact Fireshield for thermally modified pine options before specification.

### TIMBER SPECIES PLYWOOD PANELS/SHEETS

Species	Minimum. Thickness	Group Rating
Pine / Spruce Plywood	≥12mm	Group 1-S
Birch Plywood	≥12mm	Group 1-S
Poplar Plywood	≥6mm	Group 1-S
Mahogany Plywood	≥12mm	Group 1-S
Birch Plywood 10mmØ perforations.	≥12mm	Group 1-S

NOTE: Contact Fireshield to confirm timber availability, profiles, sizes and various face grades available.

## COMPLIANCE

Tested to EN13501-1:2010 and achieves Fire Class B-s1-d0. This is recognised as equivalent to Group 1-S under the NZBC Clause 3.4(a) providing compliance with NZBC C/AS1-C/AS7.

## DURABILITY

When stored, installed and maintained in accordance with this document, the fire protection properties are maintenance free for the lifetime of the timber. The Fireshield® treatment process does not decrease the service life of the timber species.

WoodSafe® - PRO™ impregnated timbers have been tested to EN16755:2017 (INT-1 and INT-2) for durability of reaction to fire performance and can be used in dry interior environments with a maximum constant relative humidity of 75%.

WoodSafe® - PRO™ timbers meet the durability requirements of the New Zealand Building Code B2.3.1 (c) for 5 years.

**INSTALLATION**

In addition to the relevant New Zealand standards and local Council guidelines, the timber must be installed in accordance with the guidelines below:

- Screw or nail fixings can be used, and in conjunction with an adhesive if required.
- The head of the fixing should sit flush with the surface of the timber.
- Use the following nail and screw fixings:
  - Galvanised Steel
  - Stainless Steel
  - Copper
  - Silicone Bronze
- Fixings methods include; direct fix to timber or steel framing, fixing over existing linings and combining WoodSafe® timbers with proprietary hidden fixing systems.
- Minor planing is acceptable, such as minor dimension adjustments however always consult Fireshield® prior to commencing.
- Drilling and creating perforations or holes is acceptable for example power box installation.
- The moisture content of WoodSafe - Interior PRO treated timbers cannot be measured using standard probe techniques. Dry weight measurement calculations must be used.
- WoodSafe® - PRO™ timbers do not decrease the life span of tools used in the installation process, however some tool surface discolouration can occur.
- WoodSafe® - PRO™ off cuts are safe to be collected and disposed of as per untreated timber regulations and guidelines.
- All work involving this product should be compliant with all relevant National Health, Work Safety & Environmental standards and regulations for timber products. For example wear dust mask, eye protection and gloves when handling and cutting timber.

**PRECAUTIONS**

The following precautions must be taken:

- Read the WoodSafe® - PRO™ Material Safety Data Sheet (MSDS) before application and have a copy available on site at all times.
- Where conditions may require variation from the recommendations on this Product Technical Data Sheet you must contact Fireshield® for advice prior to installation.
- Do not use or install in conditions outside the parameters stated in this document without the express written consent of Fireshield®.

**SUPPLIER : FIRESHIELD®**

New Zealand  
 825 Colombo Street  
 Christchurch 8013,  
 New Zealand  
 Ph: 0800 347 374  
[www.fireshieldcoatings.com](http://www.fireshieldcoatings.com)



It is the user's responsibility to check that you have the latest technical datasheet available by visiting [fireshieldcoatings.com](http://fireshieldcoatings.com) or checking with your local Fireshield Representative as the information contained in this technical data sheet is modified from time to time in line with our policy of continuous product development. The information in this data sheet is not intended to be exhaustive; any person using the product for any purpose other than that specifically recommended in this data sheet does so at their own risk. All advice given or statements made about the product (whether in this data sheet or otherwise) are correct to the best of our knowledge. Unless we specifically agree in writing to do so, we do not accept any liability at all for the performance of the product or for (subject to the maximum extent permitted by law) any loss or damage arising out of the use of the product. Fireshield hereby disclaim any warranties or representations, express or implied, by operation of law or otherwise, including, without limitation, any implied warranty of merchantability or fitness for a particular purpose. You should request a copy of this document and review it carefully.

**STORAGE CONDITIONS**

Moisture content when delivered is 10 - 14%.

Recommended storage conditions:

- Must be stored in a controlled interior environment equivalent to the final installation environment.
- The timber must be stored elevated (> 100mm) from floor or from a damp surface.
- Do not store timber packages tilted or on edge.
- Protect against dirt, contamination, direct sunlight, and rain during transport.
- Maintain straps until assembly is performed.

Fireshield® will not be liable for any product failure if the conditions as to storage, handling, use and maintenance of WoodSafe® timbers as outlined in this document are not complied with.

WoodSafe® - PRO™ treated timber must be allowed to acclimatise for a sufficient period of time to avoid cupping and shrinkage. As a guide, always allow WoodSafe® - PRO™ timbers to acclimatize for at least 14 days in the same environment they will be installed in before installing permanently.

**MAINTENANCE**

WoodSafe® - PRO™ timbers will age and behave the same as untreated timbers of the same species.

- WoodSafe® - PRO™ fire protection system has the ability to resist minor contact with moisture, impact and abrasion.
- Excessive wear or moisture contact may damage the fire protection system and if so, require inspection and possible replacement.
- Coatings applied to WoodSafe® - PRO™ timbers will need to be maintained as per the coating manufacturers technical specifications.

**SUSTAINABILITY**

All WoodSafe® - PRO™ timber products are certified by FSC and PEFC. Certification for each timber species will follow your order.

