



Innovative Timber Ideas

# SPARTAN PLUS™

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## [ HANDLING & INSTALLATION GUIDE ]

Spartan Plus is a high quality primed finger jointed and or laminated trim which is produced from defect free radiata pine.

### APPLICATIONS

Spartan Plus can be used in both interior and exterior above ground applications where a high quality wood trim is required. The preservation system is designed to resist insect attack and prevent the onset of decay. The adhesives are classified for external use to withstand all weather conditions for years to come.

### HANDLING

Spartan Plus trim is flexible therefore care does need to be taken when handling to prevent damage.

- \* Do not tip or single point lift Spartan Plus trim.
- \* Hand lift is preferred when unloading.
- \* Carry trims on edge to prevent damage

### STORAGE

Store boards in a dry well ventilated area. All possible preventative measures should be undertaken to limit exposure to moisture. Moisture may rise from a substrate below (dirt or concrete) or be atmospheric (rain or humidity). Either may result in a board taking in moisture over time.

### INSTALLATION

For best practice ensure the industry standards and codes are met throughout all areas of construction and industry professionals are consulted. Compliance to national, state and local codes is required. In particular, codes referring to moisture penetration and water control. Spartan Plus trim is suitable for all exterior 'above-ground' use classes (AWPA and UC3A).

- In exposed applications horizontal boards are to have fall to prevent water ponding.
- Trim boards are to be kept well clear of the ground - 6" from grade or 2" from concrete or pavers.
- Use lap joints in applications exposed to the weather.
- Trim is to finish 1/4' above flashings to allow to free drain.

All cuts, notches and bare wood is required to be primed with a quality primer in accordance with manufacturer's instructions.

### FASTENING

It is recommended that annular ringed hot-dipped galvanized, high-tensile, aluminium or stainless steel fasteners are used when installing Spartan Plus trim. The preservative in Spartan Plus trim is non-corrosive to all nails and fasteners.

## FASTENING CONT.

It is recommended to hand nail to give and best possible finish without damage to the coating and surface of the trim. If a nail gun is used do not drive the nail any further than 1/16" and fill with a putty, check compatibility with manufacturer prior to use.

Predrill pilot holes for nail if within 2" of the ends of the trim, and allow for dimensional change in the trim through the seasons. Nails should penetrate a stud or member a minimum of 1 1/2".

## ADHESIVES

Seek advice from the manufacturers to ensure the adhesive is compatible with Spartan Plus trims and that the adhesive is going to achieve what is required.

## PAINTING

Follow standard preparation methods:

1. Ensure the board is equal to the original size or has the correct moisture content (8-14%) prior to installation.
2. Any surfaces exposed through cutting or notching must be recoated with a quality primer prior to installation.
3. Remove all dirt, dust or any contaminants from the board surface.
4. Fill any defects, damage and or nail holes with an approved exterior filler.
5. Sand any chalky or uneven surfaces.
6. Prime all bare wood with a quality primer.
7. Apply a minimum of two coats of a quality exterior paint as per the manufacturers guidelines.

Final coats of paint must be applied within 90 days of installation.

If the primed surface of a board is exposed to the weather for an extended period of time it may become chalky. If this occurs, sanding and re-priming is required.

## PAINT COLOUR

As with all painted wood for exterior use it is a "best practice" to use a light colored top-coat as this helps minimize maintenance requirements. Paint manufacturers can advise the light reflectance value (LRV) of a colour. The higher the LRV value, the less heat the painted substrate will absorb and the longer the expected life of the product and painted surface. The use of dark colors typically increases paint maintenance requirements. Since, as with all similar products, our warranty is contingent on proper coating maintenance we recommend choosing colors with LRV greater than 45%.

## EFFECT OF MOISTURE

The Spartan Plus primer system is designed for superior exterior performance and among its benefits it restricts the rate of moisture uptake by the substrate. Even the best primer, however, cannot constitute a fully vapor proof barrier. If primed boards have been exposed to periods of either high humidity or rain prior to being painted, moisture may penetrate the wood fibre causing the board to expand or swell slightly. If this occurs it should be left unpainted to dry out until it returns to the original profiled size. Best practice is to monitor the moisture content of the board until it returns to 8-14%.

This will prevent unsightly lines occurring on the painted wall once the board normalises from the expanded state.

## DESIGNED TO PERFORM

Spartan Plus products utilise the state of the art preservative and acrylic primer technology to give end users confidence they are using the best possible product. Each product is backed by a 30 year limited warranty and a 5 year primer limited warranty.



## SAFETY

When working with Spartan Plus trim ensure you use all the correct personal protective equipment: For example mask, gloves, goggles.

For further technical information & installation guidelines please visit [www.itiamericas.com](http://www.itiamericas.com)