



**TIMBER PRESERVER
EXTENDING TIMBER LIFE
APPLICATION BOOK**

IT'S ABOUT PRESERVING YOUR TIMBER

The replacement of timber in a short period of time is a costly and time consuming process. Wood preservation must meet two broad criteria; **(1)** It must provide the desire level of protection in the intended use and **(2)** It must do so without presenting unreasonable risk to people or the environment.

Timber suffers minor and gradual physical and chemical changes as a result of age. It is an organic material which can support life of other organisms if the environment is suited to their growth and this, under certain conditions, leads to the rapid breakdown of timber. Without any surface protection general decking timbers can warp, split crack, cup or nail pop through natural weather changes and ageing of the timber. Through seasonal periods timber will suffer UV damage, grey fading and mildew.



DT 610



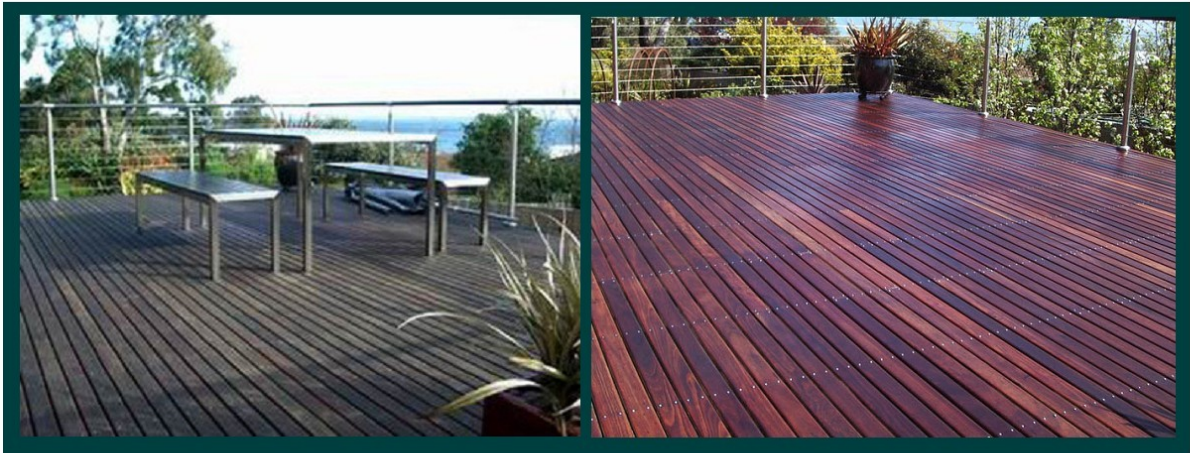
RS 620



Lantos Timber Preserver DT610 for Dressed Timber and Lantos Timber Preserver RS620 for Rough Sawn timber are natural Lanolin based liquid coatings that are low build, penetrating, moisture resistant timber treatments, designed to penetrate and preserve timber in its natural finish.

- They penetrate into the surface of the timber giving a durable, water repellent, preserving coat.
- They dry slowly to a natural finish maintaining the appearance of the original timber.
- They prevent drying, cracking and splitting of wood and is a barrier to wood rot.
- They are environmentally friendly, especially around waterways

Dressed Hardwood Timber Decking



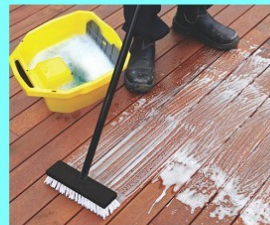
Before application

After application

Extending the life of your wooden deck

Removing Fungus and Algae.

General Preparation of the Decking.



Over time algae and fungus can develop on wooden decks and will need to be cleaned and removed. If your home has a deck with algae and fungus, its important to clean it properly to save yourself the trouble of having to replace the entire thing when the boards eventually rot. Fortunately, removing algae and fungus is not difficult at all and it is something you can do yourself in a few hours.

Step 1 - "Clear the Deck"

Before you begin, remove any furniture or fixtures from your deck. This is especially important if you have any wooden deck furniture as the acid or bleach based formula could damage the finish on your furniture

Step 2 - "Sweep Debris"

Take a regular broom and sweep the deck thoroughly to remove as much dirt as possible.

Step 3 - "Prepare Bleach Solution"

Take an empty bucket and fill it about $\frac{3}{4}$ of the way with warm water. Then add about 2 cups of quality oxygen based bleach, or oxalic acid.

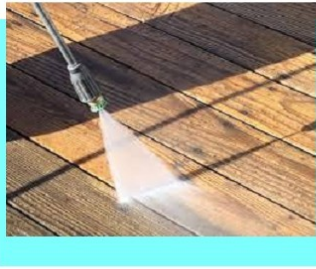
Step 4 - "Scrub and Rinse the Deck"

Whenever you work with any chemicals, remember to protect your skin. In this case a pair of rubber gloves will be suitable. Then using a scrub brush and the bleach solution, scrub the deck thoroughly. Allow the bleach solution to set in for about 15 to 30 minutes. This will begin to kill the algae and fungus that has developed on your deck surface.

Step 5 - "Using a Deck Cleaner"

Refer to the instructions on the acid or bleach based cleaner you will be using to cleanse your deck more thoroughly. In most cases you will simply need to mix the cleaner with water and apply it to the surface. Then you will need to allow the cleaning agent to set for the proscribed period of time in order to kill the rest of the algae and fungus.

Once the cleaner has had time to set and seep into the pores of the wood, use the scrub brush to work the solution in and scour away the remnants of the debris



Step 6 - "Rinse Again"

Wait at least 15 minutes, then rinse off the solution completely using a garden hose or pressure washer with a 40-degree fan nozzle. Hold the pressure washer no closer than 150mm - 200mm from the wood. The spray should span the width of one board and hit the surface at a 45-degree angle. Move steadily, rinsing one board at a time. Make sure to remove any leftover acid or bleach based cleaner, and don't forget to rinse the handrails or stair rails that may have been splashed with the solution



Step 7 - "Sweep the Deck Again"

Take the broom and sweep the deck once more. This will help to remove any water build-up or puddles that may have developed while rinsing. Afterwards allow the deck to dry in the open air.



Step 8 - "Getting ready to Apply Lantos Timber Preserver DT610"

Once the deck is dry and you've verified the cleaning is successful its now time to begin the process of applying Timber Preserver Dt610 onto the surface

Final Note:

In order to prevent future build up of algae and fungus, you should clean your deck at least once a month with a mild bleach and water solution.



PREPARATION

TREATING YOUR DECK WITH WOOD PRESERVER WILL SAVE YOU DOLLARS

The surface of wooden decking gets weather beaten over time. The surface turns grey and cracks, and eventually it becomes slippery and unprotected from dirt and green growth. Especially algae and fungus growth can hold moisture which is damaging to the wood in the long run as the risk of decay increases. therefore proper wood treatment and maintenance is required in order to keep your wooden deck beautiful and long lasting

However, maintaining a wooden deck is not just a matter of applying some lanolin to the surface. That would be equivalent to building a house directly on the lawn. the key to a beautiful and durable result is to clean the wooden deck thoroughly before applying Timber Preserver DT610. If a wood cleaning is not done, the lanolin will not be able to penetrate deeply into the wood and instead would create a new layer on top which will add to future cleaning woes and inevitably the wooden deck would need to be surface treated again.

Lantos Timber Preserver DT 610 For Dressed Timber

For use on Dressed Timber including, Decking, Fencing, Gates, Garden Boxing and Cladding, Outdoor furniture,



- Penetrates the surface and prolongs timber life
- Highlights the natural timber grain
- Does not breakdown with exposure to UV Rays
- Does not evaporate or leach from the timber
- Protects nails, screws and metal fittings
- NON slip when wet
- LOW VOC

Apply ONE COAT by hand or spray.

Use the timber as your guide if more is required

COVERAGE GUIDE	per...m ² /L
Hardwood New	10-15m ² /L
Hardwood Seasoned	8-10m ² /L
Softwood NEW	9-11m ² /L
Softwood Seasoned	8 - 9m ² /L

Estimated Dry Time - 6 hour

Dependent on weather conditions.



When spraying Timber Preserver DT610 use highly resistant materials such as polypropylene tanks and Viton seals. These are highly suitable for spraying oils, solvents and chemicals as well as water based products

MSDS Info is available on www.lantoscoatings.com

Protect your timber from drying out.

Lantos Timber Preserver DT610 is a unique product which impregnates the timber with lanolin wax - a natural wax from sheep's wool. This makes the timber water repellent and protects it from drying out or rotting due to sun and rain exposure - it preserves the timber. Timber naturally greys in exposure to the elements and for some has become a desired appearance, you can maintain this or it can be sanded off at any time to restore timber to its original colour



Before Timber Preserver DT610 can be applied, the wood must be dry or it won't absorb the finish. Three or four consecutive days without rain is enough time in most climates. (When in doubt check with a moisture meter, when 15% or below the wood is ready to coat.)

Prepare for coating per the instructions earlier in this booklet



For added protection on new Timber decks use Lantos Lanolin Grease LG100 on all screws to lubricate the screw. This protects the screw from corrosion and the timber from any water ingress around the screw holes



Flat Wool-skin Applicator



Hand Wool-skin Applicator for deck furniture



Type of polypropylene sprayer

APPLICATION

When the surface to be coated is clean and dry apply light coats of Timber Preserver DT610 using a mist spray or, ideally, a lambs wool applicator. Allow a minimum of 6 hours between coats to allow the product to penetrate the timber. The timber will tell its own story as to the number of coats you need to apply - it will depend on the absorption rate of the timber.

After Timber Preserver DT610 has fully penetrated the timber , to avoid tackiness rub or polish the timber with dry towelling or cloth. This seals the wax and maximises the protective seal, highlighting the timbers natural grain.



A Flat Wool-skin applicator



Photo of Water Beading

When Timber Preserver DT610 finish is applied and dry, the lanolin waxes are absorbed into the timber setting up a protective barrier so water will bead off and not penetrate the surface timber.



Lantos Timber Preserver RS 620

For Rough Sawn Timber

Lantos Timber Preserver RS620 is manufactured with a UV Absorber has a natural fungal protection now for warm and cooler climate conditions.



NOT recommended for dressed timber use.



For use **ONLY** on Rough Sawn Timbers such as; **Board walks, Bridges, Coastal Walkways, Jetties, Swing Bridges** and all areas of conservation.

- Penetrates the surface and prolongs timber life
- Highlights the natural timber grain
- Does not breakdown with exposure to UV rays
- Does not evaporate or leach from the timber
- Protects nails, screws and metal fittings
- Non Slip when wet
- LOW VOC
- Safe around all waterways

One coat only is applied by hand or spray. Use the timber as your guide if more is required

COVERAGE GUIDE

Approximately	6 - 7m²/Ltr
Estimated Dry Time	6 hours

TESTING STANDARDS INFORMATION

Salt Spray - In accordance with AS 2331.3.1

Acid Resistance - In Accordance with AS 1580.460.2



Highly applicable around exposed sea front areas where salt spray and airborne salt spray can cause rotting of timber and corrosion to metal fittings.

MSDS Info is available for all products: www.lantoscoatings.com

National Parks and Infrastructure

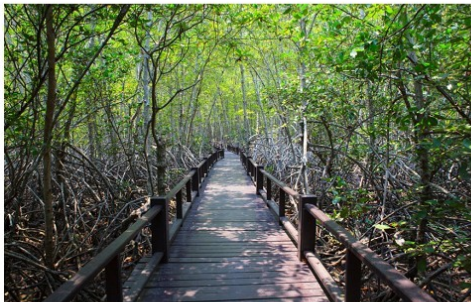
Natural Preserver in a natural environment



With all open timber structures such as bridges, lookout platforms etc.. a light annual spray using **Lantos RS620 Timber Preserver** on planks and rails will preserve the timber and reduce maintenance costs for years to come. If accessible below the bridge, spray the underside. If on pylons etc, clean and spray for ongoing protection.



Where swing foot bridges require in-situ maintenance Use **Lantos Timber Preserver RS620** for the timber walk way. **Lantos Wire Rope lubricant WR120** which can be lightly brushed on to all wires and can replace grease petroleum products and **Lantos LG100 Natural Grease** for Anti Seize protection on all connectors.

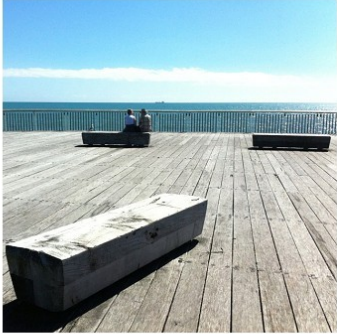


Raised Broadwalks are ideal for environmentally sensitive areas where there is protection for the mangroves, the use of **Lantos Timber Preserver RS620** for the timber walkway and **Lantos Lanolin Grease LG100** applied to nails and screw acts as both protector and anti seize.

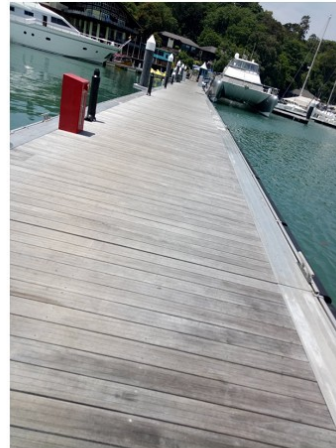


Geothermal areas are subject to major corrosion from sulphurs. **Lantos Timber Preserver RS620** will give ongoing protection to the natural timber walkways and, **Lantos Lanolin Grease LG100** applied to nails and screw bolts, nuts etc acts as both protector and an anti seize.

Bridge, Jetty and Marina's.



Water front walkway in New Plymouth New Zealand where sea washes over the natural timber, along with and continuous salt spray attacks the timber as shows signs of dry rot, splitting, and general corrosion to fittings.



The two most destructive elements on Jetties, piers and Marinas are ;

- Salt Water
- A variety of marine organisms that work to break down the timber.

A combination of Lantos Timber Preserver RS620 and Lanolin Grease LG100 can significantly decrease the ongoing degradation, protect the structures and reduce maintenance costs.

Timber Preserver RS620 applied to the walkways will protect the traffic areas. Lanolin Grease LG100 applied to end butt joints and bolts, nuts and screws will not only protect the fixtures but also give additional protection to the timber by reducing water ingress through these areas by reducing cracking and splitting.

PREPARATION OF TIMBERS

New Timber

- DO a moisture test before applying Timber Preserver RS620 - below 15% is optimum. Too much moisture or a high level of tannins and oil resins will affect the absorption rate and can lead to patchy coloured timber and protection.
- Allow new green timber to weather in its final position for 4-6 weeks.
- Prepare timber for coating per the Timber Preserver RS620 instructions. For best results sand surface lightly to remove any grain raise.

Weathered Timber

- Prepare weathered or grey timber by cleaning thoroughly per the instructions outlined in this document.
- Sanding may be required to remove stains and restore deteriorated surfaces.
- Sweep thoroughly before application.

Previously Coated Timber

- Timber previously coated with stain or oil can be coated with Timber Preserver RS620 after the surface has weathered.
- To test whether the surface is able to be coated, sprinkle water on the timber surface. If the water is absorbed into the timber it is suitable for coating. If the water beads further weathering, sanding or stripping is required.
- Timber Preserver RS620 cannot be used on surfaces previously coated with a water based coating.



- **Warning:** Once Timber Preserver RS620 is applied the natural wax content may cause any subsequent alternative products to remain on the surface and not be absorbed into the timber.

Hardwood Timber

Hardwoods are generally denser than softwoods and will absorb less Timber Preserver RS620 than softwoods - ensure you adjust your application accordingly.

They also require a longer drying period to allow full absorption.

APPLICATION GUIDE

- Mix or shake the container to ensure the product is well mixed. In cooler climates allow more mixing time.
- Measure the area of the timber to be covered.
- Use only the recommended amount. (refer coverage guide) Hardwoods are less absorbent than softwoods such as pine.
- For new timbers, it is preferable to apply via a spray unit before construction. For added protection apply Lanolin Grease NG100 to end grains and all fasteners to further seal the timber and protect it from water ingress.
- For the best results apply Timber Preserver RS620 using a fine spray applicator.
- If over applied mop up any excess liquid using a towel or clean cloth.
- Drying time 6 hours average.

Timber Preserver RS620 cannot be used on surfaces previously coated with water based paints.



DO NOT over apply as this will cause tackiness on the surface

GENERAL CONSTRUCTION APPLICATION

- Use Lantos Timber Preserver RS620 on all bearers, checkouts, drill holes and end gains prior to assembly.
- For base plates, bollard capping, threading rod and bolts (such as used on marina's) use Lantos Lanolin Grease LG100 as a protector and anti-seize.

REAPPLICATION

- A simple water test can be carried out on previously coated structures. If the water beads off, the timber is still protected. If the water is absorbed, reapplication is required.
- Typically one annual application is all that is required; although two applications are recommended in the first 12 months to ensure adequate build up below the surface of the timber as lanolin has an accumulative effect.

CLEAN-UP TIME

- Always read the entire instructions before commencing
- Use Lantos Citra-Prep High Strength Degreaser CP250 for cleaning equipment.
- For cleaning decks use warm soapy water
- If Lantos Timber Preserver RS620 is over applied resulting in a tacky surface, the excess can be cleaned off using a solvent or degreaser. Lantos Citra-Prep at 1:10 parts lukewarm water is ideal for this purpose.

Safety Data

FIRST AID MEASURES

For advice, contact Poisons Information Centre (**Phone Australia: 131 126**) or a doctor.

Ingestion If swallowed, **DO NOT induce vomiting**. Keep at rest. Seek immediate medical attention.

Eye Contact; Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.

Skin Contact; Flush area with large amounts of water and wash area with soap if available.

Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

Inhalation; Using proper respiratory protection, immediately remove the victim from exposure.

Administer artificial respiration if breathing has stopped. Keep at rest. Seek immediate medical attention.

DISPOSAL CONSIDERATIONS

Please Consider our Environment

Disposal Methods

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities.

Packaging may still contain product residue that may be harmful. Ensure that empty packaging is managed in accordance with Dangerous Goods regulations.

Special Precautions

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product should be treated and disposed through chemical waste treatment, or considered for use in recycling.

Lantos Coatings provides a comprehensive list of MSDS sheets, Tech Sheets for all products. These are available from its website www.lantoscoatings.com



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