

DRYDEN[®]

THE NATURAL CHOICE FOR YOUR TIMBER

OilStain – Product Data Sheet

1. PRODUCT ATTRIBUTES

This product:

- is a deeply penetrating oil that nourishes timber from within
- has water resistant properties that helps prevent the absorption of water into timbers, reducing excessive warping, cupping, and splitting of timber, thus extending the life span of those timbers.
- It does not film on the surface, and therefore will not crack, flake, or peel. When applied without the addition of a *Dryden Colourtone+*, the timber will weather naturally and silver over time.
- can have *Dryden Colourtone+* added to provide UV protection to the timber, helping to prevent the timber from silvering.
- Has an added fungicide to help resist mould growth.
- can have *Dryden Colourtone+* added to create a wide range of colours from lighter tones through to modern dark tones while retaining the texture and grain of the timber.
- Is suitable for application on decking, hardwood, outdoor furniture and other exterior timbers.

Note: When *Dryden OilStain Clear* is applied, timber in exposed environments will weather naturally and silver over time. This means that the natural timber colour will be maintained under covered areas while transitioning out to silver in exposed areas. *Dryden Colourtone+* 'Slate' can be used, if a natural uniform look is required.

2. PRODUCT SUITABILITY

This product:

- *Dryden OilStain* is suitable for most exterior timber species, such as softwoods like Western Red Cedar, Radiata Pine, Macrocarpa, Larch, Redwood and hardwoods like Purpleheart, Garapa, Vitex, Kwila, Tonka, Rosewood, Iroko and Jarrah, as well as other timber products such as Modified Timbers, Plywood and Laminated Timbers.
- It can also be applied to, decking & outdoor furniture, new and old timbers, and dressed and bandsawn timbers.

3. COLOURTONE+

Dryden Colourtone+ can be added to the *Dryden* OilStain 'Clear' to provide UV protection to timber, preventing silvering when maintained correctly. It is recommended that when a colour is chosen, that for maximum retention it is used in all applications of *Dryden* OilStain. The final finished colour will also be influenced by the timber type, colour, grain, and product application.

Dryden Colourtones+ printed on paper, internet website, colour chips, and liquid samples are a representative guide only as the timber type, actual raw timber colour, exposure and seasoning of timbers, and the quantity of oil applied, will determine the final colour achieved.

Note: Timber suppliers/manufacturers may have restrictions on colour options across some timber profiles or timber species in their range. *Dryden* recommends you check with your Timber Supplier/Manufacturer on colour limitations for your project.

4. COVERAGE RATES

Coverage Rates (approximate only)

Timber type	Coverage rate (m ² /litre)
Bandsawn Timber (Low Density)	6-10
Dressed Timber (Low Density)	9-12
Hardwood Timber (High Density) - <i>Dryden</i> does not recommend the use of <i>Dryden</i> OilStain Clear base on decking timbers excluding decking	10-12 12-14
Bandsawn Plywood	6-8
Restored Timbers (Low Density)	6-8

Dryden OilStain coverage rates are approximate only and may need to be adjusted at times to match the timber. Allow *Dryden* OilStain to penetrate for 30-60 minutes before wiping off any excess with a dry applicator or cloth.

When applying a second coat or a maintenance re-coat, application rates will vary depending on the timber's exposure (covered/uncovered etc) and the time frame between coats or since the timber was last given a maintenance coat.

Note: When there is excessive absorption into restored timbers, *Dryden* recommends a change of application method. This will allow for a lower-than-normal coverage rate to match the timber porosity, being mindful that any excess should be wiped free of the surface 30-60minutes post application.

5. COATING SYSTEMS

Exterior: Two coat system

First Coat factory applied, or site applied prior to fixing.

Second Coat 24 hours after first coat.

6. APPLICATION TOOLS

Dryden OilStain applies easily and rapidly. It can be applied using a:

- **Speedbrush:** Preferred application method. Fine bristled speedbrush (not lambskin or long pile speedbrush).
- **Spray:** Use airless spray equipment.
- **Brush:** For uneven or rough surfaces, a wide good quality bristle brush is best.
- **Roller:** Use a medium nap for most timbers.

7. COATING ENVIRONMENT

All timbers delivered to site must be protected and covered from rain, environmental grime, concrete, cement dust, metal filings, and site contaminants. All coated/uncoated timber must be stored off the ground when not fixed.

Temperature Ranges:

The precoating application done in factory or building site should be completed in a suitable environment, with adequate lighting, ventilation, and air temperatures between 12°C and 25°C, with humidity <75%.

Moisture Content:

Do not apply to exposed timber if rain is expected within 6-8 hours of application. *Dryden* OilStain should only be applied to dry timbers (dry weather is ideal).

Timber moisture content must not exceed 18%.

Substrate Standard:

If any substrate or surface cannot be brought up to the standard that will allow the coating to perform as specified, then do not proceed until remedial work is carried out.

8. SURFACE PREPARATION

Preparing Dressed Timber

For best results, we recommend cleaning timber with Dryden Liquid Timber Clean to ensure surface is free from debris, droppings, and stains.

Preparing Bandsawn Timber:

Thoroughly brush along the direction of the grain to remove dust, loose timber fibres and debris. After brushing, turn over the timber and knock several times to ensure all loose fibres fall off. For best results, we recommend cleaning timber with Dryden Liquid Timber Clean to ensure surface is free from debris, droppings and stains

Protect:

Protect newly coated timber from damage. Take all relevant precautions to protect timbers from sub trade and sources of contamination such as dust, dirt, aggregate concrete wash, concrete cutting, metal grinding, paint splatter, etc.

Envelope Seal all Exterior Timbers:

All timbers should be coated with *Dryden OilStain* prior to installation or fixing to provide a first coat envelope seal. All faces, backs, edges and cut ends must be coated.

Restoration & Refurbishment: (refer to section 13)

Where timber is heavily weathered, previously coated, or showing signs of environmental contamination that require restoration and refurbishment, make sure to bring the surface of the timber up to standard before applying *Dryden OilStain*.

9. PRODUCT PREPARATION

For UV protection of the timber, all contents of the *Dryden Colourtone+* container must be added to the *Dryden OilStain* 'Clear' base. Trying to alter the colour of *Dryden OilStain* by adding less *Dryden Colourtone+* will result in less UV protection of the timber.

Dryden OilStain with *Dryden Colourtone+* must be thoroughly stirred until the colour is even and fully mixed prior to use.

For projects that require more than one pail of the same colour, box all pails together to ensure a consistent colour is achieved.

Mixing and Adding:

- Check the *Dryden Colourtone+* colour supplied prior to starting against specification documents and colour samples.
- Always mix outdoors or in a well-ventilated area.
- Shake the *Dryden Colourtone+* container vigorously for approximately 3 minutes before adding it to *Dryden OilStain*

'Clear' base.

- Re-check the *Dryden* Colourtone+ colour prior to adding it to *Dryden* OilStain 'Clear' base.
- Add *Dryden* Colourtone+ to *Dryden* OilStain 'Clear' base and stir until the colour is even and fully mixed.

Note: In the event a small amount of *Dryden* Colourtone+ is still in the container (after adding to *Dryden* OilStain), add a small amount of *Dryden* OilStain to the *Dryden* Colourtone+ container and re-shake vigorously then re-add contents to *Dryden* OilStain.

10. PRODUCT APPLICATION

Check all products supplied prior to starting against specification documents and colour samples.

Dryden OilStain must be used as supplied. Never add thinners or alter it in any way.

Dryden OilStain needs to be stirred regularly (with or without Colourtone+ added) to ensure a consistent product and colour is applied. *Dryden* Colourtone+ will settle out from the *Dryden* OilStain if it is not stirred regularly.

For projects that require more than one pail of the same colour, box all pails together to ensure a consistent colour is achieved.

Coat the timbers full length linearly (do not stop mid-section) and complete individual walls at one time, using good coating practices.

When completed, the entire area should be uniform in look and colour (when *Dryden* Colourtone+ has been used) and free from coating defects.

FIRST COAT

SCENARIO	RECOMMENDED ACTION
First coat (factory applied)	<p><i>Dryden</i> OilStain can be applied by Factory Pre-coaters; their systems allow <i>Dryden</i> OilStain to be coated within a controlled environment delivering an envelope seal to timber profiles, prior to delivery to the site.</p> <p>When timber has been factory coated, <u>ensure all cut ends are coated during fixing.</u></p>
First coat (site applied)	<p>Prior to fixing, a first coat must be applied to all faces and cut ends, to provide an envelope seal. Timber should be free from raised or woolly grain, planing burrs, or other machining defects.</p> <p>On-site coated timber must be racked or laid out on the back face, off ground, in a clean well vented location for 24 hours at 12-25°C, with humidity <75%, free from sub-trade contamination.</p> <p>Any excess or wet look must be gone prior to fillet stacking face-to-face.</p> <p>Stacked timber must be protected and covered from rain, environmental grime, concrete or cement dust, metal filings and site contaminants. All coated timber must be stored off the ground when not fixed.</p> <p>When timber has been coated on site, <u>ensure all cut ends are coated during fixing.</u></p>

Cut ends	<p>All exterior timber cut ends must be coated, prior to fixing, with the same product and colour that was used to pre-coat the timber.</p> <p>When coating cut ends, care must be taken not to create lap marks on aesthetic faces.</p> <p>Note: Do not use <i>Dryden WaxEndSeal</i> to seal these areas.</p>
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Exposed Ends; *Dryden WaxEndSeal*

- For Architectural builds with exposed timber ends, such as beams, posts, and screens, use *Dryden WaxEndSeal*.
- *Dryden WaxEndSeal* is a wax emulsion for sealing exposed ends of timber.
- *Dryden WaxEndSeal* must be applied after appropriate coats of *Dryden OilStain* (with or without *Dryden Colourtone+*) have been left to penetrate for a minimum of 24 hours
- Be sure to avoid *Dryden WaxEndSeal* on any aesthetic faces.

Refer to the *Dryden WaxEndSeal* Data Sheet for further information.

SECOND COAT

New Timber

Second coat – minimum 24 hours after application of the first coat.

11. COMPATIBILITY WITH OTHER PRODUCTS

Chemically Treated Timber:

- LOSP-treated timber (Light Organic Solvent Preservative) must **NOT** be coated until the chemicals & solvents in the treatment process have evaporated from the timber. Refer to the supplied LOSP timber manufacturer's Data Sheet.
- H1-H6 Hazard treatment coded timbers are *Dryden OilStain* compatible as long as they do not offer water repellence. Please refer to the timber manufacturer's Data Sheet.

Rubber & Butyl Surfaces:

- *Dryden OilStain* can affect rubber adhesives and butyl surfaces if not washed/wiped off soon after contact. *Dryden OilStain* applied to wooden shingles does not usually affect the butyl underlay. It is accepted that most of the industry now uses non-rubber-based glues. Enquiries should be made to the manufacturer. If coating around butyl surfaces, be sure to keep all surrounding surfaces protected and clean during and after the application of *Dryden OilStain*.

Preventing Cross Diffusion:

- When absorbent materials need to be attached to timber coated with *Dryden OilStain*, 'stripe' the mating surfaces or edges with recommended coats of a compatible primer as recommended by the manufacturer to prevent cross diffusion into the porous substrate.

- *Dryden* recommends that regardless of which manufacturer's system is being used, all data sheets are read and followed, for their technical requirements and warranties.

Sealants & Adhesives:

- *Dryden* recommends allowing a minimum migration period of 7 days before applying any adhesives or sealants. This ensures that *Dryden* OilStain has migrated well into the timber. Ensure the timber is clean and free of dust or dirt and use an appropriate primer as recommended by the manufacturer.
- Refer to sealant & adhesives manufacturer data sheets for technical requirements and warranty information.

Hardware:

- Do not coat hinges or hardware that cannot be removed. Carefully remove hardware, fixtures, and fittings before commencing work. Should the product accidentally come in contact with hardware, clean off immediately.

Timber Compatibility:

- *Dryden* OilStain is not compatible with Bamboo or other grasses (Monocotyledons)

Harvesting Rainwater:

- Rainwater that comes into contact with timber coated with *Dryden* OilStain is not suitable for drinking.

12. CARE AND MAINTENANCE

- Maintenance time varies widely according to many factors including the age and porosity of the timber, species, situation and exposure to weather. *Dryden* OilStain should be re-applied when the timber has lost its water resistance and water is soaking into the timber. We recommend routine maintenance inspections every six months to ensure the timber is still protected from water, or as frequently as necessary to retain your preferred timber appearance.
- *Dryden* recommends a 6 monthly soft water washing of the surface to remove surface contaminants such as dust and pollen.
- Wash with clean water using a garden hose or soft brush (such as a car washing brush). A mild detergent solution can be used to remove stubborn contaminants.
- Conduct a maintenance inspection of the coating at the same time as washing. When *Dryden* Colourtones+ are showing signs of chalking and fading this is a signal of maintenance being required and is normal.
- **Note:** *Dryden* Colourtones+ that are faded or chalked or when timber starts to show signs of dryness and loss of colour, clean to an even finish using *Dryden* Liquid Timber Clean. Apply 1 coat of *Dryden* OilStain with added Colourtone+, wiping off the surface excess.

First maintenance is determined by the quality of application of the first coating, building design, orientation to the sun, weather exposure, chosen colour, timber type, and grain.

13. RESTORATION & REFURBISHMENT

Where timber is heavily weathered, previously coated, or showing signs of environmental contamination that require restoration and refurbishment, make sure to bring the surface of the timber up to standard before applying *Dryden OilStain*

Heavily neglected weathered timber

Heavily neglected timber that has been left to weather and had little maintenance carried out over many years, showing severe stress, (e.g. dryness, cracked and split, badly cupped, protruding nails) will require a strong wash with *Dryden Liquid Timber Clean* prior to coating.

- All restoration work must be carried out prior to coating and may include the replacement of weatherboards that are not salvageable. Refer to a Registered Builder for advice.
- *Dryden* recommends a strong wash using *Dryden Liquid Timber Clean* as per maintenance not carried out on time.

Pre-stained surfaces

- Degraded stains and polyurethane surfaces must be stripped back to bare timber prior to the application of *Dryden OilStain*.
- *Dryden* recommends a preparation wash with *Dryden Liquid Timber Clean* to remove the degraded loose product.
- After a strong wash, inspect the timber surface for any old coating remaining, spot stripping may be required if not fully removed. All coatings must be removed before coating with *Dryden OilStain*.
 - Note: Never sand or scrape timber to remove old stains. Spot stripping may be required. Sanding and or scraping will result in patchy sanding or scraping marks on the timber surface that will show through *Dryden OilStain*.

Environmental contamination

- Where timber is weathered, or showing signs of environmental grime, mould, watermarks or discolouration, clean with *Dryden Liquid Timber Clean* prior to applying *Dryden OilStain*.

14. COMPLETION AND CLEAN UP

Clean Up:

- Clean up with mineral turpentine or hot water and detergent for spray equipment, brushes, and clothes.
- These also help with over-spray or accidental spillage on unwanted surfaces such as windows; use a wiping rag on smooth surfaces and a brush on rough surfaces.

Remove:

- Remove drop sheets, coverings, and masking to leave surrounding surfaces and areas clean, tidy, and undamaged.
- Dispose of all materials safely.
- Do not pour unused *Dryden* OilStain down the drain. Unwanted *Dryden* OilStain should be brushed out on newspaper or absorbed with sawdust, then disposed of via waste collection.
- Disposal of empty paint containers via domestic recycling programs may differ between local authorities. For more information on responsible disposal of paint and packaging visit painttakeback.co.nz.

Protect:

- Protect new work from damage. Take all relevant precautions to protect timbers from site work, dust, dirt, aggregate concrete wash, concrete cutting, metal grinding, water blasting, paint splatter, etc.

15. TECHNICAL

Dryden OilStain Light Reflective Values (LRV)

Standard Light Reflectance Values cannot be determined for semi-transparent coatings. A transparent coating allows light to pass through and interact with the underlying timber which is why as an observer we can see it. It follows that the colour of the timber being coated as well as the number of coats applied will therefore significantly impact the measured LRV.

Dryden do not offer any LRV data for their products.

16. ENVIRONMENTAL HAZARDS

Hazards	Guidelines
Accidental release measures	Clear area of all unprotected personnel. Slippery when spilt. Wear protective equipment. Absorb with sand or soil. Collect and seal in properly labelled drums.

17. STORAGE

Before storing, box all like-for-like containers.

Do not store directly on concrete or cold surfaces, or in damp poorly ventilated environments.

The product is best stored off ground in a well-ventilated area at a consistent moderate temperature.

Plastic containers containing *Dryden* OilStain can flex, particularly if stored in conditions that vary constantly in temperature.

Do not use or store near heat or open flame.

18. PERSONAL PROTECTION EQUIPMENT (PPE) PRECAUTIONS

Always wear appropriate PPE such as protective gloves, eye protection and face protection.

When spraying or in case of inadequate ventilation, wear respiratory protection.

Wash skin thoroughly after handling with hot soapy water.

Refer to the *Dryden* OilStain Safety Data Sheet for detailed information.

19. FIRST AID

If poisoning occurs, contact a doctor or the Poisons Information Centre (New Zealand 0800 764 766; Phone Australia 131 126). If medical advice is needed, have a product container or label at hand.

- **Swallowed:** If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical assistance.
- **Eye:** If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.
- **Skin:** If skin contact occurs, remove contaminated clothing and wash skin thoroughly. If irritation occurs seek medical advice.
- **Inhaled:** Remove from contaminated area. Apply artificial respiration if not breathing. Seek medical advice.

For special medical advice and emergencies

Call NZ 0800 734 607, AUST 1800 033 111

20. FURTHER INFORMATION

The responsibility for products sold is subject to our standard terms and conditions.

For further information:



Contact **0800 379 336** or



Click on www.dryden.co.nz

The sale of this product is subject to our standard conditions of sale.

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