

### HIGH-PERFORMANCE WOOD OIL FOR ALL APPLICATIONS

653

#### BENEFITS

- **Eco friendly** - Manufactured from approximately 60% recycled and bio-renewable materials
- **Sustainable choice** - Significantly increases service life, minimising frequency of timber replacement and felling of trees
- **Meets Green Star requirements** - Specially formulated with a VOC 75g/Litre, as measured by EU Directive 2004/42/CE
- **Stabilises your wood** - Significantly reducing splitting, warping and cupping with a self-healing action
- **Simple and easy to use** - No technical experience necessary
- **Maintenance is fast and simple** - No need to sand or strip, just simply clean and recoat
- **No flaking or peeling** - Instead, the coating is designed to fade with time
- **Cost effective** - Up to 2x the coverage rate of most wood coatings
- **Your timber is the star!** - Enhances the natural colour and grain of your timber
- **Long-term, accumulative protection** - Stays active inside your timber to protect from the inside out.
- **Made in New Zealand**

#### USES

CUTEK<sup>®</sup> ECO is a high-performance oil-based wood stabiliser that highlights the natural beauty of wood and extends service life.

CUTEK<sup>®</sup> ECO is copper-free that will not impart a faint green hue on very light or white coloured timbers, making it suitable for commonly used light coloured timber species.

CUTEK<sup>®</sup> ECO is simple to apply, easy to maintain, and cost effective. See the factsheet and application guidelines for more information.

CUTEK<sup>®</sup> ECO clear oil will allow the timber to naturally lighten/silver with exposure to sunlight and UV.

CUTEK<sup>®</sup> Colourtones can be used to slow the silvering process and maintain the natural look of the timber for longer or change the colour to help meet project design aesthetics.

CUTEK<sup>®</sup> ECO is suitable for use on weatherboards, shingles, doors, plywood, log buildings, beams, outdoor furniture, decks, fascia boards, shutters, garage doors, joinery, spa pools, fences, posts, engineered products and in biologically challenging environments.

CUTEK<sup>®</sup> ECO is NOT suitable for use on acetylated wood.

#### SPECIFICATIONS

##### RESISTANCE GUIDE

WEATHERABILITY	CUTEK <sup>®</sup> ECO will gradually fade over time rather than peel, split or crack, so the rejuvenation of timber coated with CUTEK <sup>®</sup> ECO is a simple fast and cost-effective process.
HEAT RESISTANCE	Up to 80°C dry heat.
CHEMICALS	Wood surfaces coated with CUTEK <sup>®</sup> ECO may show splash or spilling marks if contacted by chemically staining products such as wine, cleaner, contaminated water, or strong chemicals. At risk areas include kitchens, bathrooms and spa and pool areas.
WATER	Very good resistance to fresh and salt water but not suitable for immersion.
ABRASION	Good when fully cured.

### TYPICAL PROPERTIES AND APPLICATION DATA

CLASSIFICATION	Penetrating Wood Stabiliser
FINISH	Matt/Low Sheen
COLOUR	Various by Colourtone
COMPONENTS	One
VOLUME SOLIDS	Not applicable
VOC LEVEL	75g/L EU Directive 2004/42/CE
FLASH POINT	85°C ASTM D93
VISCOSITY	~ 29cSt
COLOURTONE	Use 36-72 ml/litre
THINNER	Do not thin
PACK SIZES	5L, 10L, 20L, 200L, 1000L
PRODUCT CODE	653

### SPREADING RATE

NEW HARDWOODS DRESSED	10–20m <sup>2</sup> /litre
OLD RESTORED TIMBER DRESSED	7–9m <sup>2</sup> /litre
NEW TIMBER ROUGH SAWN	7–9m <sup>2</sup> /litre
OLD RESTORED TIMBER ROUGH SAWN	4–7m <sup>2</sup> /litre
SHINGLES AND SHAKES	2–5m <sup>2</sup> /litre

NOTE: Practical spreading rates will vary depending on such factors as application method, ambient conditions and surface porosity and roughness.

## SUBSTRATE

This is a guide only and not to be used as a specification. Contact CUTEK® to discuss your specific project requirements.

SUBSTRATE TYPE/ DESIRED EFFECT	SITUATION	PREPARATION	PROTECTION	ADD COLOURTONE? (Y/N)
<b>Wood – new</b> Retain freshly oiled look or alter the wood colour	Exterior	Clean with CUTEK® Restore if tannin/water/iron stained	Apply 2 coats of CUTEK® ECO	Y
		Otherwise clean with CUTEK® Quickclean		Y
<b>Wood – new</b> Stabilise & allow to naturally lighten/silver	Exterior	Clean with CUTEK® Restore if tannin/water/iron stained	Apply 2 coats of CUTEK® ECO	N
		Otherwise clean with CUTEK® Quickclean		N
<b>Wood – old</b> Previously coated with CD50, CD50 Extreme, CUTEK® Extreme CD50 or CUTEK® ECO	Exterior	Clean with CUTEK® Restore if tannin/water/iron stained  Otherwise clean with CUTEK® Quickclean	Apply 1 coat of CUTEK® ECO	Y
<b>Wood – old</b> Previously coated with film forming coating	Exterior	Remove previous coating with CUTEK® Wood Stripper	Apply 2 coats of CUTEK® ECO	Y
		Then clean with CUTEK® Restore		Y
<b>Wood – old</b> Previously uncoated & wish to stabilise and allow to naturally lighten/silver	Exterior	Restore with CUTEK® Restore	Apply 2 coats of CUTEK® ECO	N
				N
<b>Wood – old</b> Previously uncoated & wish to retain freshly oiled look or alter the wood colour	Exterior	Restore with CUTEK® Restore	Apply 2 coats of CUTEK® ECO	Y
				Y

## DIRECTIONS FOR USE

### APPLICATION

#### APPLICATION PRECAUTIONS

**Before you get started:** Before you begin, note the hazards and precautions on the CUTEK® website and the can labelling, and ensure that you use the correct safety equipment as detailed in the Safety Data Sheet.

Full list of application precautions is available on website at [cutek.co.nz](http://cutek.co.nz), or by checking with customer services on 0800 128835.

DO NOT SWALLOW.

DO NOT USE on surfaces which come into direct contact with foodstuffs.

DO NOT USE on surfaces which come into direct contact with the ground.

#### STEP BY STEP APPLICATION PROCESS:

**Before you protect:** It is very important that timber is clean, non-greasy and dry (moisture content of less than 17%) prior to coating with CUTEK® ECO. Refer to the factsheet and can label for directions on how to prepare timber for coating with CUTEK® ECO.

**Weather:** Once applied, CUTEK® ECO generally requires 2-3 days of dry conditions after coating to facilitate full penetration/diffusion and an even colour finish.

**Colourtone:** Unless a clear finish that will naturally lighten/silver/grey off in a few months is desired, it is important to mix in 1 CUTEK® Colourtone per 5 litre of CUTEK® ECO oil before use.

**Application:** Stir the CUTEK® ECO oil thoroughly (with the added CUTEK® Colourtone if desired) before and during use. Make sure to stir from the bottom of the can to ensure active ingredients are properly mixed throughout the oil.

Apply thin, even coats with a brush, paint pad or lambswool applicator. CUTEK® ECO works best when applied as a THIN COAT - two or three thin coats on finished wood and hardwoods are much better than one or two thick coats.

For best results, ONE coat of CUTEK® ECO should be applied to all faces of the wood prior to installing, with a SECOND coat applied to the top surface once the first coat has completely penetrated/diffused.

Apply a maintenance coat approximately six months later and then inspect annually.

**Drying time:** Unlike traditional wood coatings, CUTEK® ECO needs to penetrate/diffuse deeply into your timber. This penetration/diffusion process varies in time for many reasons including differences in timber type (species, density, porosity, age of timber and residual moisture content) as well as environmental factors (temperature, humidity, weather).

The timber is ready for a recoat of CUTEK® ECO when it is completely dry and non-greasy. The second coat of CUTEK® ECO will take longer to migrate into your timber than the first coat.

**Clean-up:** Equipment (including brushes) may be cleaned with turps or soap and water. If not correctly cleaned or disposed of, oily rags and other oily materials may cause combustion fires. After use you MUST immediately spread out all oily material outside to dry, by flattening them out to their full size in an airy spot at temperatures above 4 degrees Celsius, or wash them thoroughly with water and detergent and rinse. Remove all oil from all clothes, tools, rags and any other materials contacted during use or as a result of an accidental spill. Ensure wash water is disposed in accordance with local regulations.

## MAINTENANCE

With CUTEK®, maintenance is simple, fast, and cost effective. CUTEK® ECO will not crack, peel or split, and your wood can be easily rejuvenated or restored using our Prepare and Protect system - no need to sand or strip.

CUTEK® ECO should be reapplied when the wood is no longer beading water, or as frequently as necessary to retain the natural beauty and colour of the wood.

Typically, horizontal exterior wood surfaces exposed to full weather such as pool decks and handrails will require re-coating more frequently (initially after 6 months, then annually), while other surfaces such as vertical rough-sawn cladding will need recoating less often.

## IMPORTANT INFORMATION

CUTEK® ECO is a high-performance, oil-based wood stabiliser. It has been designed to protect timber from the inside out while allowing it to gradually fade over time without peeling, cracking or splitting. CUTEK® ECO will penetrate and diffuse deeply into your timber to repel moisture, enhance dimensional stability and improve service life. Anything that might prevent this penetration/diffusion, such as an existing coating (not CUTEK® oil), retained moisture, or insufficient time between coats, must be avoided or corrected before applying CUTEK® ECO.

CUTEK® ECO penetration/diffusion times can vary significantly depending on the species, ambient temperature, porosity, density, weather exposure and moisture content of the timber. Because of the wide range of applications possible for CUTEK® ECO and different factors affecting penetration/diffusion time, it is vital that the end user determine the suitability of CUTEK® ECO for their specific project by testing a sample area first, especially if speed of drying is important for a project. CUTEK® ECO is not suitable for use on food preparation surfaces.

When using CUTEK® ECO, you should avoid:

- Wet wood, or wood with a high moisture content: Your wood should contain a maximum moisture content of 17% as anything higher can significantly delay the penetration process. If this happens, CUTEK® ECO may sit on the surface and eventually go tacky without diffusing properly into the timber.
- Cold weather: In cold weather, CUTEK® ECO will become thicker and too much oil may be applied as a result. Warm the oil by placing in a sunny/warm spot before application to make it thinner and enhance penetration.
- Too many coats too soon: CUTEK® ECO needs to completely diffuse and dry fully before the next coat is applied. Your wood should be completely dry and non-greasy before recoating.
- Existing oil, stain or paint coating on the surface of the wood: Existing film coats may act as a barrier to CUTEK® ECO penetration/diffusion. CUTEK® ECO must be applied to clean, bare and dry timber, and previous coatings must be properly removed PRIOR to application of CUTEK® ECO.

### Disclaimer

CUTEK® will not accept liability for:

- the application of incorrect colour to any substrate for any reason
- the application of CUTEK® ECO to wood with a moisture content greater than 17%
- the application of CUTEK® ECO to any substrate with a pre-existing coating

## UNDERSTANDING CUTEK® COLOURTONES

It's important to understand that CUTEK® exterior timber oils are a unique penetrating oil system designed to enhance the natural colour and grain of wood. CUTEK® ECO is sold as a clear oil which can be used to protect the timber from moisture and moisture related movement such as cupping, warping and splitting. Using just the clear oil will protect the wood, providing stability and structural integrity while allowing it to naturally lighten to produce a silver weathered patina over time. The soft natural lightening and silvering of the wood represents a low care option and is becoming an increasingly popular way to leave wood in weather exposed settings.

Wood projects using clear CUTEK® ECO oil that have silvered can easily be returned back to the wood's original colour using CUTEK® Restore and high pressure washing followed by further applications of CUTEK® ECO clear oil.

However, if you desire to maintain the original colour of the 'freshly oiled' wood then you need to purchase a CUTEK® Colourtone to add to clear CUTEK® ECO. It is important that the Colourtone that you choose is suited to your selected wood as it should further enhance the natural colour and grain and help to maintain its "natural" colour over a longer period of time.

## STORAGE & SAFETY

<b>SAFETY</b>	Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels and SAFETY DATA SHEET.
<b>STORAGE</b>	This product is NOT classified as dangerous goods for storage and road and rail transport. Store in well ventilated bunded area under cover and away from sources of heat. Keep containers closed at all times.
<b>HANDLING</b>	As with any chemical, ingestion, inhalation or contact with eyes and skin should be avoided by good occupational work practice. Eye protection approved to AS/NZS 1337 and skin protection approved to AS/NZS 2161 should be worn where there is a risk of splashes entering the eyes or contacting the skin. Always wash hands before smoking, eating, drinking or using the toilet.
<b>USING</b>	Use with good ventilation and avoid inhalation of spray mists and fumes. If risk of inhalation of spray mists exists, wear combined organic vapour/particulate respirator.
<b>FLAMMABILITY</b>	This product is a combustible liquid. On burning will emit toxic fumes.

## DISTIBUTOR INFORMATION

Timber Protection Ltd  
 NZBN 9429051071271  
 17C Vega Place, Rosedale,  
 Auckland NZ 0632

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