

CUTEK® EXTREME CD50

COPPER-BASED HIGH-PERFORMANCE OIL-BASED WOOD STABILISER

D691



BENEFITS

- **The original Extreme formula** - copper-based formula for powerful exterior wood protection
- **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
- **Sustainable choice** - Significantly extends the service life of timber
- **Long-term, accumulative protection** - Stays active inside your timber to protect from the inside out
- **Apply before or after install** - no waiting for wood to weather and moisture won't enter through cuts or fasteners
- **Suitable for all types of wood** - including engineered wood and some bamboo.

USES

CUTEK® Extreme CD50 is a copper-based high-performance oil-based wood stabiliser that highlights the natural beauty of wood and extends service life.

CUTEK® Extreme CD50 is simple to apply, easy to maintain, and cost effective. See the factsheet and application guidelines for more information.

CUTEK® Extreme CD50 clear oil will allow the timber to naturally lighten/silver with exposure to sunlight and UV. CUTEK® 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® Extreme CD50 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® Extreme CD50 is NOT suitable for use on acetylated wood.

SPECIFICATIONS

RESISTANCE GUIDE

WEATHERABILITY	CUTEK® Extreme CD50 will gradually fade over time rather than peel, split or crack, so the rejuvenation of timber coated with CUTEK® Extreme CD50 is a simple fast and cost-effective process.
HEAT RESISTANCE	Up to 80°C dry heat.
CHEMICALS	Wood surfaces coated with CUTEK® Extreme CD50 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	≈250g/L ASTM 3960
FLASH POINT	73°C ASTM D93
VISCOSITY	≈27cSt
COLOURTONE	Use 36-72 ml/litre
THINNER	Do not thin
PACK SIZES	1L, 5L, 10L, 20L, 200L, 1000L
PRODUCT CODE	D691

SPREADING RATE

NEW HARDWOODS DRESSED	10–20m ² /litre (400–800 sq feet/gallon)
OLD RESTORED TIMBER DRESSED	7–9m ² /litre (300–400 sq feet/gallon)
NEW TIMBER ROUGH SAWN	7–9m ² /litre (300–400 sq feet/gallon)
OLD RESTORED TIMBER ROUGH SAWN	4–7m ² /litre (180–300 sq feet/gallon)
SHINGLES AND SHAKES	2–5m ² /litre (84–212 sq feet/gallon)

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

CUTEK® EXTREME CD50



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 COLOUR/TONE? (Y/N)
Wood – new Retain freshly oiled look or alter the wood colour	Exterior	Clean with CUTEK® Restore if tannin/water/iron stained	Apply 2 coats of CUTEK® Extreme CD50	Y
		Otherwise clean with CUTEK® Quickclean		Y
Wood – new Stabilise & allow to naturally lighten/silver	Exterior	Clean with CUTEK® Restore if tannin/water/iron stained	Apply 2 coats of CUTEK® Extreme CD50	N
		Otherwise clean with CUTEK® Quickclean		N
Wood – old Previously coated with CUTEK® CD50, CUTEK® Extreme CD50, or CUTEK® Wood Preservative	Exterior	Clean with CUTEK® Restore if tannin/water/iron stained Otherwise clean with CUTEK® Quickclean	Apply 1 coat of CUTEK® Extreme CD50	Y
Wood – old Previously coated with film forming coating	Exterior	Remove previous coating with CUTEK® Wood Stripper	Apply 2 coats of CUTEK® Extreme CD50	Y
		Then clean with CUTEK® Restore		Y
Wood – old Previously uncoated & wish to stabilise and allow to naturally lighten/silver	Exterior	Restore with CUTEK® Restore	Apply 2 coats of CUTEK® Extreme CD50	N
				N
Wood – old Previously uncoated & wish to retain freshly oiled look or alter the wood colour	Exterior	Restore with CUTEK® Restore	Apply 2 coats of CUTEK® Extreme CD50	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 www.cutek.com.au, or by checking with customer services on 1300 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® Extreme CD50. Refer to the factsheet and can label for directions on how to prepare timber for coating with CUTEK® Extreme CD50.

Weather: Once applied, CUTEK® Extreme CD50 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® Extreme CD50 oil before use.

Application: Stir the CUTEK® Extreme CD50 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® Extreme CD50 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® Extreme CD50 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® Extreme CD50 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® Extreme CD50 when it is completely dry and non-greasy. The second coat of CUTEK® Extreme CD50 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® Extreme CD50 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® Extreme CD50 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® Extreme CD50 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® Extreme CD50 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® Extreme CD50.

CUTEK® Extreme CD50 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® Extreme CD50 and different factors affecting penetration/diffusion time, it is vital that the end user determine the suitability of CUTEK® Extreme CD50 for their specific project by testing a sample area first, especially if speed of drying is important for a project. CUTEK® Extreme CD50 is not suitable for use on food preparation surfaces.

When using CUTEK® Extreme CD50, 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® Extreme CD50 may sit on the surface and eventually go tacky without diffusing properly into the timber.
- Cold weather: In cold weather, CUTEK® Extreme CD50 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® Extreme CD50 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® Extreme CD50 penetration/diffusion. CUTEK® Extreme CD50 must be applied to clean, bare and dry timber, and previous coatings must be properly removed PRIOR to application of CUTEK® Extreme CD50.

Disclaimer

CUTEK® will not accept liability for:

- the application of incorrect colour to any substrate for any reason
- the application of CUTEK® Extreme CD50 to wood with a moisture content greater than 17%
- the application of CUTEK® Extreme CD50 to any substrate with a pre-existing coating

CUTEK® Extreme CD50 contains a small amount of copper salts that may impart a faint green hue on some very light or white coloured timbers. This is more likely to occur in internal applications or in areas not exposed to UV light. Some commonly used light coloured timber species used internally where this may be an issue are Hoop Pine, Hemlock, Tasmanian Oak and Victorian Ash (list not exhaustive). We have a copper-free product called CUTEK® Euro (available by special order) which is extensively used as an alternative to CUTEK® Extreme CD50 in these instances.



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® Extreme CD50 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® Extreme CD50 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® Extreme CD50 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® Extreme CD50. 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

SAFETY	Read Data Sheet, SAFETY DATA SHEET and any precautions on container labels and SAFETY DATA SHEET.
STORAGE	This product is NOT classified as dangerous goods for storage and road and rail transport under ADG code Special Provision AU01 exemption in Australia. Store in well ventilated bunded area under cover and away from sources of heat. Keep containers closed at all times.
HANDLING	As with any chemical, ingestion, inhalation or contact with eyes and skin should be avoided by good occupational work practice. Eye protection approved to AS1337 and skin protection approved to AS2161 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.
USING	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.
FLAMMABILITY	This product is a combustible liquid. On burning will emit toxic fumes.

COMPANY INFORMATION

Chemisys CUTEK® Pty Ltd
A.C.N. 610 127 654
PO Box 3604
Loganholme QLD 4129
Australia

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