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Cutek CD50

Finishes that preserve, and enhance the natural character and beauty of wood

www.deckmaster.com.au

Features and Benefits of CUTEK Wood Preservative

Cutek Wood Preservative is a specially formulated oil timber preservative for **interior & exterior** use, that is designed to penetrate deeply into **any species of timber, including** hardwoods, to provide water repellency, and assist with dimensional stability.

Cutek Wood Preservative does not peel off or crack, but helps to control **warping, cupping, and splitting;** effectively enhancing the service life of timber. This characteristic ensures that future recoat preparation consists of a simple wash-down of the timber, rather than conventional sanding or stripping, resulting in significant savings in ongoing maintenance costs and time.

Cutek Wood Preservative, is resistant to surface fungus and mould.

Cutek Wood Preservative is suitable for use as a clear, water repellent preservative coating on exterior timber surfaces, however the clear coated timber surface will lightly silver with age to produce a natural weathered appearance, while retaining its dimensional stability characteristics. If this natural silvering of the timber is undesirable, then colourtoned Cutek Wood Preservative must be used to delay the silvering process in addition to maintaining and enhancing the natural colour of freshly oiled timber.

Cutek Wood Preservative is suitable for use on weatherboards, shingles, board & batten, plywood, cane, log buildings, beams, outdoor furniture, deckings, fascia boards, shutters, garage doors, joinery, spa pools, fences, posts, ... in fact virtually anything made of wood.

Cutek Wood Preservative can be easily applied by almost anyone.

< Before Cutek Restoration

After Cutek Restoration >

EXAMPLES OF CUTEK PENETRATION

Cypress Pine

Merbau Decking

HOW TO USE CUTEK WOOD PRESERVATIVE

In order for **CUTEK Wood Preservative** to function properly it is essential that it is able to diffuse deeply into the timber. Correspondingly, any situations that would inhibit this free diffusion such as retained moisture, insufficient time between coats, or the presence of any surface sealant or barrier, must be avoided or satisfactorily remedied by correct procedure and product selection.

CUTEK WOOD PRESERVATIVE ON NEW TIMBERS OR PLYWOOD

It is recommended that one coat of **Cutek Wood Preservative** be applied to all faces of the timber prior to fixing, and a second coat of **Cutek Wood Preservative** be applied a minimum of two weeks after application of the first coat. Always ensure that sufficient time is allowed for penetration of **Cutek Wood Preservative** into the substrate before re-application, as actual recoat time may vary according to factors such as substrate temperature, density, porosity or retained moisture content. Thicker timbers such as posts, beams and logs will require additional coats of **Cutek Wood Preservative** in order to obtain adequate protection, as **Cutek Wood Preservative** has a cumulative effective in the wood with each application.

When **Cutek Wood Preservative** is used on plywood or laminated timber, penetration beyond the glue line may be inhibited. **Cutek Wood Preservative** can be used on CCA and other treated timbers using the above coating format, however timbers pre-treated with invisible film-forming wax and polymer processes such as LOSP, or water-repellent dips may prevent or slow down the free diffusion of **Cutek Wood Preservative.**

Please contact Chemisys if you have any questions regarding the suitability of our products over other coatings or pre-treatments.

CUTEK WOOD PRESERVATIVE ON OLD, OR PREVIOUSLY COATED TIMBERS

Old, dirty, or weathered grey timbers should be prepared by applying **SARA Clean** biodegradable surface-active restoration agent, and power rinsing with a home water blaster set to under 750 p.s.i. (50 bar), with a fan jet pattern to avoid damage to the wood fibres.

Tougher stains such as water marks, tannin stains, and grease stains may be removed from the timber by using the more powerful **WAO Stain Remover** and a similar process. When the substrate is thoroughly dry, the restoration of the timber may be completed by the application of two coats of **Cutek Wood Preservative**.

It is important to note that the use of high-pressure water alone to clean timber will not eliminate biological growth from the timber and may create damage to the wood fibres as well as uneven start and stop marks. Additionally, the use of commercial and household cleaning solutions that contain bleaching agents such as Sodium Hypochlorite should be avoided. These chemical cleaners will harm the environment and may damage the timber tissue. Using bleach to clean timber may produce a film forming reaction in the outer wood fibres that causes a subsequent coating failure.

Timbers previously coated with a film-forming product that is failing (e.g. conventional stains, linseed oil, paint, polyurethane, etc.), must first be restored to their original texture and colour by preparation with **CD77 Stripper** and/or **WAO Stain Remover** prior to the application of **Cutek Wood Preservative**. This process can be more complex depending on the individual circumstances, so consultation should be made with Chemisys prior to the commencement of this type of project. The results that can be achieved from such a restoration are both dramatic and rewarding as warped and cupped timbers can return to their original profile and flatness, and the original natural colour and beauty of the wood can be restored.

Additional information is available in the **Timber Restoration** section of our web site at www.chemisys.com.au

HOW TO USE CUTEK WOOD PRESERVATIVE ON JOINERY AND GLAZING

The first application of **Cutek Wood Preservative** can be factory dipped, brushed or sprayed onto frames and sashes prior to site delivery. Joinery coated this way will require further on-site applications to complete timber protection.

If using wooden glazing beads we recommend either Bostik Seal n Flex, Sikaflex PRO 2HP, or 3M Scotchseal 5300, which will adhere directly to timber already protected with **Cutek Wood Preservative**. Any of these products will provide a flexible seal and adhesive cushion. If glazing with linseed oil putty or similar, wipe the glazing rebate with a dry cloth, then stripe with one or two coats of a waterbased polyurethane. When fully cured, glaze as normal. The use of other sealants may be successful, however we suggest you test alternatives for satisfactory adhesion to **Cutek Wood Preservative** coated timber prior to use.

PRECAUTIONS –

WEATHER AND TEMPERATURE

Timbers to be coated with **Cutek Wood Preservative** should be clean and dry, ideally with residual moisture content of no higher than 17%. Do not apply **Cutek Wood Preservative** to exterior timbers if it is likely to rain within 24 hours of application.

Cold temperatures may increase the viscosity of **Cutek Wood Preservative**, tending to slow down the rate of diffusion. Storing containers in a warm place immediately prior to application will help alleviate this problem. Because **Cutek Wood Preservative** dries by diffusing into the timber substrate, application of a second coat of **Cutek Wood Preservative** too quickly after the first coat in cold weather will significantly delay the penetration and drying of the finished coating. If this inadvertently occurs, removal of excess **Cutek Wood Preservative** from the surface with a rag, will promote faster drying. Alternatively, the application of the second coat of **Cutek Wood Preservative** may be delayed for up to three months in cold weather, with no detrimental effect to the efficacy of the coating.

SURFACE MOULD & FUNGUS

Clean looking timbers may be contaminated with mould spores, which are not readily identifiable with the naked eye. If timber in this condition is coated with **Cutek Wood Preservative** it is possible that dark staining may occur. If such staining inadvertently appears, contact Chemisys for **WAO Stain Remover.**

GARAGE DOORS

If the timber being coated is on a garage door and the glue holding the timber to the frame is either a rubber based adhesive, or you are uncertain; run a bead of glazing sealer along the back of the door where the timber meets the frame. This will ensure that the timbers will remain intact if the **Cutek Wood Preservative** weakens the adhesive.

RUBBER & BUTYNOL

Cutek will dissolve rubber based glues and adhesives, and will affect Butynol and rubber surfaces if not wiped off soon after contact is made. When **Cutek Wood Preservative** is applied to wooden shingles, it does not normally affect the Butynol

underlay. Timber protected with **Cutek Wood Preservative** can become stained if it is in constant contact with bituminous type materials.

CHEMICALS
Timber surfaces coated with **Cutek Wood Preservative** 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-pool surrounds. Please contact Chemisys if you have any questions regarding the suitability of our products in these areas.

CROSS DIFFUSION
Where plasterboard, plaster, or any other absorbent material abuts timber coated with **Cutek Wood Preservative** it is possible that cross diffusion into the porous substrate will occur. Please contact Chemisys if you have any questions regarding the suitability of our products for your application.

LEACHING
Exterior painted or plastered surfaces situated below **Cutek Wood Preservative** protected timbers may become stained by leachate from above. If this inadvertently occurs contact Chemisys for **WAO Stain Remover**.

FASTENINGS
Cutek Wood Preservative will not adversely affect hot dipped galvanised iron, silicon bronze, stainless steel or copper nails. **Colourtoned Cutek Wood Preservative** may lightly stain lead flashing and other substrates contacted by leachate.

KNOTS
When **Cutek Wood Preservative** is applied it diffuses deeply into the timber and displaces moisture. This reduction in moisture content may loosen some knots, particularly in very knotty timbers.

PRESERVATION
Cutek Wood Preservative is designed purely as a surface coating type product, and is in no way intended to replace licensed timber treatment processes. The surface biocidal action of **Cutek Wood Preservative** is incorporated for surface aesthetic purposes only.

PLYWOOD
Application of **Cutek Wood Preservative** to some decorative plywoods with extremely thin top veneers may cause underlying dark veneer glue lines to become visible due to the penetration of **Cutek Wood Preservative** rendering the top veneer semi transparent. Please contact Chemisys for a free sample of **Cutek Wood Preservative** to test on your plywood substrate to determine suitability if you suspect this may be a problem.

HOW TO APPLY CUTEK WOOD PRESERVATIVE
APPLICATION TECHNIQUE
Avoid contact with plants, shrubs, trees and waterways. Apply liberally with spray, brush, speed-brush or roller while removing drips and sags as necessary. When using colour-toned **Cutek Wood Preservative** it is essential that the pail be stirred frequently before and during use. The more **Cutek Wood Preservative** that is absorbed, the longer the coating will last. Equipment may be cleaned with detergent and water, or mineral turpentine.

COVERAGE
These figures represent typical averages for common decking and cladding timbers such as Western Red Cedar, Pine, Spotted Gum, Jarrah, Ironbark, etc.

New timber dressed	10 - 15sq mtr/litre
Old restored timber dressed	7 - 9 sq mtr/litre
New timber rusticated or band sawn	7 - 9 sq mtr/litre
Old restored timber rusticated or band sawn	4 - 7 sq mtr/litre
Shingles and shakes	2 - 5 sq mtr/litre

MAINTENANCE
Cutek Wood Preservative must be reapplied as frequently as necessary to retain the natural beauty and colour of the timber.

Recoat time varies widely according to the age and porosity of the timber, species, situation, and exposure to the weather. Typically horizontal exterior smooth surfaces exposed to full weather such as pool decks and handrails, may require annual maintenance, while vertical rough-sawn weathersiding may require maintenance less frequently.

< Before Cutek Restoration

After Cutek Restoration >

COLOUR-TONED CUTEK WOOD PRESERVATIVE

Exterior timbers coated with **Clear Cutek Wood Preservative** will silver with age. Specially formulated colour-tones may be obtained to mix with clear **Cutek Wood Preservative** to maintain the natural timber colour character, delay silvering, and retain the 'freshly oiled look' for longer. When selecting from the range of colour-tones allow for the timber colour to naturally lighten during the first three to eight months after application, as natural weathering and leaching occurs. Retention of colour is more durable on rusticated, or band sawn timbers, and may be maximised by including the colour-tone in all applications of **Cutek Wood Preservative**. If **colour-toned Cutek Wood Preservative** has faded over time, wash timbers with **SARA Clean** and apply a single coat of **colour-toned Cutek Wood Preservative** to restore the original look of the protected timber.

The following table will assist colourtone selection for maintaining the natural character and colour of commonly available timber species. Please note that the natural colour of timbers can vary significantly. Please contact Chemisys if you require custom manufactured colour-tones, or test-pots to determine suitability.

TIMBER TYPE	RECOMMENDED COLOUR
Western Red Cedar	Cornish Gold, Cedartone, New Bronzetone
Jarrah	Burnt Red, Walnut
Spotted Gum	Sela Brown, New Bronzetone
Ironbark	Walnut, Chestnut, Burnt Red
Kwila	Autumntone, Burnt Red
Cypress	Cypress
Pine	Goldtone, Cypress
Weathered Look	Smokey Grey, Grey Mist
Mixed Hardwood	Sela Brown, New Bronzetone

Black Ash

Burnt Red

Goldtone

Walnut

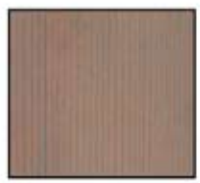
Autumntone

Rustic Gold

Chestnut

Cedartone

Sela Brown



Smokey Grey

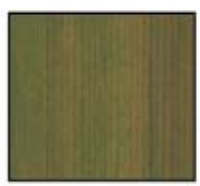
Cornish Gold

New Bronzetone

Grey Mist

Cypress

Browntone



Greenstone

Blondetone

Clear

OTHER PRODUCTS

CUTEK TPS475

TPS475 is a timber preservative and stabiliser that designed for production pre-coating of factory manufactured items such as natural timber garage doors and laminated beams. TPS 475 imparts exceptional long term dimensional stability to timber by helping maintain the modulus of elasticity. **TPS 475** may be used wherever rapid penetration of the timber substrate is required.

SARA CLEAN

SARA Clean is designed as a cost effective, biodegradable cleaner for the restoration of uncoated, dirty and weathered timber. **SARA Clean** is less powerful than **WAO Stain Remover**, however it is non hazardous, and will not damage substrates or vegetation adjacent to the timber surface being restored, eliminating the need for containment or masking. **SARA Clean** is excellent as a pre recoat wash for timber previously coated with **Cutek Wood Preservative** that is due to be recoated, because it effectively removes accumulated dirt and loose pigmentation from the surface fibres of the timber. **SARA Clean** can also be used for the cleaning of dirt, grime, oxidised paint, mould, fungi, moss and decayed material from wood, tiles, bricks, fibrolite, paths, driveways etc.

WAO STAIN REMOVER & BRIGHTENER

WAO Stain Remover was developed because exterior wood surfaces including laminated structures, shingle roofs, decks, cladding etc. become discoloured from dirt and general weathering and greying. **WAO Stain Remover** counteracts the weathering process by eliminating years of discoloration and fungus from all species of timber. It cleans, brightens and restores wood surfaces back to the appearance of new timber. In addition it is exceptional at removing stubborn stains such as tannin stains, resin stains, fungal & algae stains, green CCA stains, oil & grease stains, surface greying and many other chemical stains that may destroy the natural beauty of wood.

CD77 STRIPPER

CD77 Stripper is a water soluble gel designed to remove multiple layers of latex paints, stains, varnishes, linseed oils and other film forming coatings that hide the original color and texture of wood. **CD77 Stripper** allows you to start over from the beginning, by restoring wood to a similar condition to new, timber before application of the **CUTEK Timber Preservative** system. **CD77 Stripper** is designed to restore timber without damaging the cell structure or interfering with future coatings on the newly stripped surface. **CD77 Stripper** also removes finishes from all types of surfaces, including masonry and metal.

AQUABEAD LOW VOC WATER REPELLENT

Aquabead is an ultra violet (UV) stable waterborne water-repellant technology designed to optimize the three performance criteria essential in a high performance water repellent specifically formulated for wood. These are long term water beading, excellent liquid water exclusion to eliminate decay, and reduced water vapour transmission to improve dimensional stability and prevent warping and cracking. Additionally, regulatory and environmental requirements for reduced toxic emissions have been incorporated into this product, which has a volatile organic content (VOC) of less than 20 gm/litre and is water-soluble.

AQUEOUS ALIPHATIC URETHANE

Chemisys manufactures a range of aqueous aliphatic urethanes. These are fast drying, low VOC, minimal yellowing, varnishes that features excellent mar, scuff and chemical resistance, flexibility and impact resistance, that are available with or without UV stabilisation. These varnishes are suitable for many interior and exterior timber substrates.

QTROL SURFACE CLEANER

Qtrol Surface Cleaner is an economical, and unique combination of biodegradeable surfactants that target moss, mould, and general grime on any exterior surface. When diluted with water and applied, **Qtrol** starts to attack the contamination on the treated surface, and each time it rains, **Qtrol** reactivates to help flush the mould and grime away without damaging the substrate. **Qtrol** is easy to use as you only have to wet the contaminated surface and let nature do the rest.

Further details about these and other customised products may be obtained from Chemisys Australia Pty. Ltd.

CUTEK SAFETY INFORMATION

Combustible Liquid, Contains:

Heavy Aromatic Petroleum Solvent	10	-	<30%
Phosphoric Esters			<10%
Copper-8-Hydroxyquinoline			<10%

Risk: Harmful: Low viscosity material may cause lung damage if swallowed. Irritating to eyes and skin. Harmful to aquatic organisms

Safety: Keep out of reach of children. Avoid contact with eyes and skin. Handle in accordance with good industrial hygiene and safety practices.

First Aid: If swallowed, do not induce vommiting but contact a doctor or Poisons Information Centre immediately and show this container or label. In case of contact with eyes, rinse immediately with plenty of water and contact a doctor or Poisons Information Centre. After contact with skin remove contaminated clothing and wash immediately with plenty of soap and water.

Spills/Leaks: Contain and recover spilled material

Fire: In case of fire use dry chemical, foam, or carbon dioxide. Fires in confined spaces should be dealt with by trained personnel wearing approved breathing apparatus.

Additional Information is Available in the Material Safety Data Sheet Available From www.chemisys.com.au.