CHURTON PACIFIC LIMITED

NATURAL TIMBER FINISHING & PRESERVATIVES
CEDAR RESTORATION SERVICES

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Technical Data Sheet

CD50 – Liquid Art

Water Repellant Wood Preservative

Characteristics: CD50 is a specially formulated water repellent, fungicidal timber protective oil, designed to be brushed or sprayed on to the surface of any species of dry wood where it will diffuse and penetrate deeply into the timber.

CD50 has Copper 8 quinolinolate as its active ingredient. Copper 8 has been proven as a low toxicity, highly effective timber preservative.

Features: CD50 works deep within the timber to:

- Provide resistance against decay, fungus, mould and termites
- Repel water
- Control warping, cupping and splitting of timber (known technically as "dimensional stability")

CD50:

- Will not break down in ultra violet light
- Will not crack, peel or flake
- When applied to timber has little or no mammalian toxicity
- As a liquid is very low in toxicity - is rated as a non-hazardous product
- Is easy to apply – spray, brush or roller on

Typical uses: CD50:

- Is an oil based preservative for interior and exterior use
- Can be used on any species of timber, and on new, old, tanalised timber and plywood.
- Can be used on LOSP treated timber when the treatment has completely dried or evaporated off.
- Can be used on thicker timbers eg posts, beams, or logs etc.
- Is a clear product, and when used on timber alone will silver with age to produce a natural weathered appearance
- CD50's specially formulated colourtones can be added to the clear product to enhance and maintain the natural timber character and colour.

Directions for use: CD50 works by penetrating deep within the timber, therefore prior to application the timber must:

- Have retained moisture of no more than 17%. (Timber treated with LOSP or other solvents, must have had sufficient time for the treatment to dry or evaporate off – do not treat if there is still an odour present)
- Be free of sealants, coatings, barriers etc. (Timber treated with LOSP or temporary waxy finishes must have a wax level of less than 2%)
- Be clean and free of mould and stains

Application: CD50 must be used as supplied and not thinned or altered in any way.

The colourtone must be shaken well before adding to the clear CD50.

Stir in the colourtone thoroughly before use, and frequently during use.

Apply liberally with spray, brush, speed brush or roller while removing drips and sags as necessary.

Avoid contact with plants, shrubs, trees and waterways.

Equipment may be cleaned with detergent and water, or turps.

Natural Colour Toning: Exterior timbers coated with Clear CD50 will silver with age.

Specially formulated colour-tones are added to the clear CD50 to maintain the natural timber character and colour and retain the 'freshly oiled look'.

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 is maximised by including the colour-tone in all applications of CD50.

If colour-toned CD50 has faded over time a simple recoat will restore the original look of the protected timber.

Avoid using colour-toned CD50 in applications such as indoor furniture. Clear CD50 is generally used in these situations and for the majority of interior finishing. If colourtones are used, in high traffic areas, or those areas likely to gets splashed with alkali liquid eg spa rooms, kitchens or toilets, use WETSHIELD as a protective coating – Interior only.

Coverage: These figures represent typical averages for common cladding timbers:

Cedar, Pine, Douglas Fir, Macrocarpa etc., New timber dressed:

- 15 square metres per litre

New timber rusticated or bandsawn, old restored timber dressed:

- 7 - 9 square metres per litre

Old restored timber rusticated:

- 4 - 7 square metres per litre

Shingles and Shakes

- 2 -5 square metres per litre

Maintenance: CD50 may be reapplied as frequently as necessary to retain the natural beauty and colour of the timber. Typically timber initially protected with two coats will require a third coat in two to five years, depending on the porosity of the timber, situation, and exposure to the weather. Timber exposed to excessive UV rays (reflection from lakes, the sea, or off white concrete) may require recoating more often.

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 CD50 it is possible that dark staining may occur. If such staining appears, contact Churton Pacific Ltd or your local supplier for WAY2GO stain remover. See our notes on SARA-CLEAN, WAY2GO and SupaStrip Plus for removal of stains, mould, fungus and film situations.

Weather and Temperature:

Cold temperatures will affect the viscosity of CD50 and will tend to slow down the rate of diffusion. Storing containers in a warm place immediately prior to application will help alleviate this problem.

Timbers to be coated with CD50 must be clean and dry, with residual moisture content of no higher than 17%.

Do not apply CD50 to exterior timbers if it is likely to rain within 6-8 hours of application.

New Untreated Timber:

It is recommended that:

- One coat of CD50 be applied to all faces or the timber prior to fixing, and a second coat of CD50 be applied a minimum of four weeks after application of the first coat.
- Additional CD50 should be applied to thicker timbers such as posts, beams and logs in order to obtain adequate protection, as CD50 has a cumulative effect in the wood with each application. Alternatively, use CD50-Log as a first coat, followed by regular CD50 for second and later coats.
- When CD50 is used on plywood or laminated timber, penetration beyond the glue line may be inhibited. Do not use on veneers.

Pre-Treated Timber: Timber Timbers pre-treated by other processes such as LOSP or water-repellent dips are often impregnated with invisible film-forming waxes and polymers, which inhibit the free diffusion of CD50. CD50 may not penetrate when the wax level is above 2%. Ensure LOSP treated timber has been allowed sufficient time to dry.

Aged or Contaminated Timber:

Paints, stains, polyurethane, water repellent, mould, fungi, lichen, linseed oil, wax, decay etc. can be removed to restore timber back to it's original timber texture and colour with as few defects as possible.

This is achieved using a process involving specially formulated chemicals and controlled water washing. It is recommended that highly skilled and trained operators carry out the restoration process.

The restoration process is followed by the application of CD50. Timbers that are warped and cupped will tend to return to the original profile and flatness. The dimensional stability and natural appearance of the timber will be maintained for many years with occasional maintenance applications of CD50.

Contact Churton Pacific Ltd for Restoration Advice.

Joinery & Glues: The first application of CD50 can be factory dipped 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 one of the tested adhesives.
Recommended adhesives for use on CD50 protected timber are Holdfast Fix-All, Bostik Seal n Flex, Sikaflex PRO 2HP, or 3M Scotchseal 5300'. Any of these products will provide a flexible seal and adhesive cushion.
If glazing with linseed oil putty or similar, 'stripe' the glazing rebate with one or two coats of WETSHIELD. When fully cured, glaze as normal.

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 CD50 weakens the adhesive.

Rubber and Butynol: CD50 will dissolve rubber based glues and adhesives, and will affect Butynol and rubber surfaces if not wiped off soon after contact is made. When CD50 is applied to wooden shingles, it does not normally affect the rubber underlay. Timber protected with CD50 can become stained if in constant contact with bituminous type materials.

Interior Use – Protection from Splash Stains:

Timber surfaces coated with 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 pools. WETSHIELD can be used in these situations to give a protective coating which can be wiped clean

Cross Diffusion: Where plasterboard, plaster, or any other absorbent material abuts timber with CD50 then 'stripe' the mating edges or surfaces of the timber with two coats of WETSHIELD to prevent cross diffusion into the porous substrate.

Fastenings: CD50 will not corrode galvanised iron, silicon bronze, stainless steel or copper nails. Colour tones may lightly stain lead flashing and other substrates contacted by leachate.

Drinking Water Surfaces:

CD50 can be used where drinking water is run off treated roofing surfaces, such as shingles.

NB: Roof should be left to weather for three months following final application of CD50 during which time there will need to be some reasonable rainfall on the roof to remove oil taint from drinking water. The toxicity levels of active ingredient will not affect the drinking water.

Safety: As a liquid CD50 is very low in toxicity and is rated as a "non-hazardous product"

Avoid direct contact of product with eyes.

First Aid: If eyes become contaminated, flush with water.

Conditions Of Supply: All goods supplied by Churton Pacific Ltd., are produced under rigidly controlled procedures which assure the purchaser that at the time of sale, products are physically suitable for use in the matter stated. However, as we cannot exercise control over the mixing and use of products, and the weather conditions, no responsibility will be accepted for any damage or injury, which may arise from careless storage, handling, application or use.

Information: Specific information relating to the application and handling of this product may be obtained solely from Churton Pacific Limited, 15A Vega Place, Mairangi Bay Industrial Estate, AUCKLAND. Phone/Fax (09) 478-4370, 0800 107 555.