



Wood & Bamboo Care

General Problem

When winter comes, people are always persecuted by the shrinkage of timber floor due to sudden decrease of humidity ratio. When spring comes, the high humidity ratio facilitates the growth of mould on timber floor. Furthermore, timber floor will be swollen after the leaking of a water pipe. All these encounters can be prevented if we had applied the **“Wood & Bamboo care” solution**.

Product Information

“Wood & Bamboo care” is a water-like chemical solution. It has good infiltration power to wood surface, and has chemical reaction with the alkaline substance inside the wood. A protective layer will be formed after the reaction and stays permanently inside the wood. Therefore, **“Wood & Bamboo care”** is an excellent solution for wood preservation.



Apply **“Wood & Bamboo care”** once on timber surface can eliminate all the problems associated with the timber products. It can be used in industrial, commercial and domestic applications.

Advantage

- Apply once on wooden surface is enough.
- **“Wood & Bamboo care”** will never damage wood tissues and structure.
- Because of an impermeable crystal layer formed on the wood substrate after treatment. **“Wood & Bamboo care”** can provide good protection like ordinary paint. The adhesive power between paint and wood surface will be greatly improved. Therefore, the life of paint can be prolonged and the paint cost can be saved up to 25%.
- The treated surface is safe from water, oil, acid and alkaline attack.
- The treated surface will be free from water and moisture. Therefore, it can prevent the growth of bacteria and mould.





- Because of crystallized layer formed on the surface, all the voids between tissues will be filled up by tiny crystal after curing. Therefore the surface density and strength of timber will be greatly improved after treatment. So, even though heavy snow on the timber surface, it can be cleared easily.
- The crystal substance is non-flammable. Therefore the timber product becomes fire-retardant after treatment.
- Since the voids of the timber surface have been filled up entirely by the crystal; therefore adverse weather influence on timber will be very minimal.
- The treated timber has a crystal layer on the surface which will not be digested by termite and woodborer. Therefore, the termite and woodborer will not growth.

Principle of Product

“Wood & Bamboo care” is a water-based, alkaline solution. It is liquid form and non-toxic, non-flammable and has high infiltrative power. Since most of the timber in the world is alkali-base in nature which **“Wood & Bamboo care”** will have reaction with them, it can seal the applied surface and make the surface water, acid and alkali-proof. Besides it also strengthens the timber tissue. The treated timber material will form a zero **thickness** protection layer in the tissue, so that it is saved from ultraviolet attack. **“Wood & Bamboo care”** is an innovative and multi-function product for timber protection.

Surface Requirements

1. The surface that undergoes treatment cannot be too dry.
2. For treating dry timber, use a wet tower to pre-wet the surface first before applying **“Wood & Bamboo care”** and then applies **“Wood & Bamboo care”** on the surface with a sponge or soft brush.
3. If the moisture content of the wood substrate was high, apply the **“Wood & Bamboo care”** with a hard sponge. In this situation, all faces of the timber material must be treated with **“Wood & Bamboo care”** to prevent buckling.
4. If the surface has grease (e.g. lubricant, wood oil), NT Cleaner should be used to clean the surface prior to **“Wood & Bamboo care” treatment**.
5. Filled the cracks or holes by caulking materials after the use of **“Wood & Bamboo care”**. Painting should be applied after the **“Wood & Bamboo care”** is dried.
6. If the surface is already coated, it should be cleaned first by fine sanding or thinner, etc.

Technical Guideline

- **“Wood & Bamboo care”** is a chemical product which is ready mix in the factory. It is no need to mix with other product and dilute during application.



- Apply the product once is enough; the speed of absorption is depending on the surface porosity ratio.
- It can be applied by different method, brush, hard sponge, cloth, and spray.
- In special condition, for example the surface is too wet, the **“Wood & Bamboo care”** should be applied once or twice more. However, the drawback is **“Wood & Bamboo care”**s crystals will be appeared on the treated surface. When this happened, clean the crystal by water before it sets hard.
- Basically the surface is ready for walking after 30 min. However, it is recommended that walking on the surface should be prohibited until it is completely dry.
- All the apparatus should be cleaned by water after use. During the application, it is no need to wear any respirators.
- The coverage is 8-10 m²/lit/coat depending on the surface porosity.

Remarks

1. This product cannot be stored in glass and aluminum container.
2. If the **“Wood & Bamboo care” solution** is contacted with glass and aluminum accidentally, clean the surface by water before it dries.
3. This product is not a crack-filler. It is impossible to seal or fill up the crack on the surface.
4. In cold condition, this product may be frozen. Thaw the product and shake it gently before use.

Limited Guarantee

The information in the above is based on the practical application and laboratory raw data. Therefore the accuracy of the information is reliable at the time of this material being printed. In the world wide applications, **“Wood & Bamboo care”** treated timber will be free from seepage and detached problem. Since the work environment cannot be controlled; the condition of material under treatment; and the storage condition, transportation of the **“Wood & Bamboo care”** is not known, we cannot guarantee the performance. When the users find problem in using **“Wood & Bamboo care”** and how to perform its function, we will try our best to provide assistant. Our company will not responsible for the malfunction of **“Wood & Bamboo care”**, if **“Wood & Bamboo care”** was applied on any substandard timber or by natural disaster (e.g. earthquake, flood).

保木靈

產品簡介

每當北風一起，閣下便會發現木地板收縮成隙。黃梅天會發霉。甚至在爆水管後木地板會翻起等..。這些情況全部可以解決的，那就是在鋪砌地板前接受了保木靈之處理。

保木靈是一種水狀化學藥水，具滲透能力，能滲入木材表面，跟木材內部之鹼性物質產生化學變化，形成一層保護「層」，藏在木材內部，便可達到保護木材之功效。故此保木靈實乃一種高級之木材保護劑。用保木靈處理木材，只需施工一次，便能永久地把木材或木材製成品中所帶來的各種問題解決。由於施工簡單，故此可廣泛地應用於工業，商業和民用住宅。

優點及功能

- * 在木材處理面施工一次便足夠。
- * 不會破壞木材在處理後之組織結構。
- * 由於材面處理後受晶體所阻隔，水和水氣不能穿透材質，故此有如面漆般保護性功能，漆油和木材之間的連結性大大改善，所以油漆壽命也更延長。漆油可省約25%，亦不容易受水氣而脫層。
- * 處理後之材面，能防止油脂，鹼和酸的侵蝕。
- * 材面經處理後表面沒有水和水氣，故此能防止細菌滋生，並且表面不發霉。
- * 由於處理面接受了晶體之作用，填充了纖維間之空隙，所以在處理後材質表面密度和強度大大增加。
- * 跟上述道理相同，假若處理面是蓋有霜雪，它們不能滲進材面，故此不廢勁地便可除去。
- * 晶體本身不助燃，也不燃燒，故此木材在處理後，便擁有不助燃之功能。
- * 材面經受處理後，空隙便被大部份晶體填充，木材對氣候變化之影響便極微。
- * 木材經處理後，變成晶體化，防止白蟻或蛀木虫生長。皆因蟻酸不能溶解木纖維，生長空間太乾燥，故此白蟻或虫類永不回來。

產品原理

保木靈之基材為鹼激活之化合物。它是水性無毒，不助燃，兼且具有滲透性能。由於在

地球上大部份木材皆為鹼性，故此保木靈能跟它們產生化學變化，把處理面密封起來，達到防水/油/酸/鹼，以及增強木材表面之密度和硬度作用。該密封面並不是表面層，而是滲透進材質內部做到表面無厚度，不怕陽光紫外線破壞。有了這層密封層，便能產生上述之優點和功能。故此保木靈是一種高科技，多功能之優質產品。兼且其施工容易，俾使保木靈能廣泛地被應用於工商業和民用，作為一種保護木材之液體。

處理面之要求

1. 木材本身不能太乾燥。太乾燥會吸入大量保木靈，效果反為不好。
2. 遇到乾燥木材時，先用濕毛巾(或硬海棉)把處理面抹一遍，待表面濕潤。留意表面狀況，當表面水份差不多乾涸時，用硬海棉塗上保木靈一遍便可。
3. 如木材本身含水量高，(探濕儀在85% RH以上)，可用硬海棉沾上保木靈抹上。於此情況，最理想是六面皆抹，否則木材有機會變撓曲，但乾燥時間會稍長。
4. 施工面如有油脂(如潤滑油/桐油等)，要先用清油劑(Neutra Clean)清理好才可使用保木靈。
5. 使用保木靈後，才好把木裂縫，虫洞等修好。待乾涸後才塗上面漆。
6. 假若木材表面已有漆油或其他覆蓋層，首先要將它們清掉才能使用保木靈。可採用刀刮，機磨或溶劑清理掉。

備註:

1. 施工環境最好是在室內，皆因蒸發率較慢，對木材保護更好。
2. 假若必定要在戶外施工，最理想時間是在早上太陽仍未感到熱力，一般在八至九時較佳。黃昏後當處理面冷卻下來也可。
3. 保木靈必須應用於「原木」上，待乾涸後才掃上光油或面漆。

技術指引

1. 保木靈為一化工產品，配方已調好，不需要任何稀釋或混合其他物品使用。
2. 本產品使用一次便足夠，覆蓋率決定於材面之孔隙率以及材質。
3. 使用方法很多樣化，毛掃，滾輪，硬海棉或布，以及噴壺皆可。此視乎施工情況來決定。
4. 某些特殊情況可能需要多塗一至二遍，例如濕度太高或材面滲漏。但其缺點則會令

到保木靈液體太多而停留表面，留下白色膠狀晶體。一旦此情況出現，可在其變硬前用清水洗掉。

5. 在施工後約 30 分鐘時間，可以在施工面行走。如可避免則盡量做到，待其全面乾涸才行走。
6. 所有施工設備，在施工完畢後用清水洗淨。施工時不用帶眼罩，呼吸器等輔助設備。
7. 應用上述之施工方法，覆蓋率可達 12~15 m²/Lit.

備註：

1. 本產品不適用於玻璃或鋁容器儲存，皆因會有侵蝕現象。
2. 假若接觸了玻璃或鋁表面，待產品未乾前用清水沖洗。
3. 本產品不是填充劑，不可能密封或填充材面之裂紋。
4. 在寒冷地區，本產品會結冰。使用前先把它升溫溶掉(例如放置室內)，再搖幾擺，其功能自會回復。

有限的保證

以上所述資料，是根據現場實踐和實驗室數據相配合而寫成，於印刷此刊物時其準確性甚高。在國際上，保木靈這一產品，在使用後十年內，木材建築物材料不會再次出現漏水、脫落等問題。

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