



## PURE TUNG OIL (China Wood Oil)

- DESCRIPTION:** Pure Tung Oil is obtained from the seeds of a tropical tree—the Tung tree (*Aleurites fordii*). It is a member of the spurge Family, and can also be known as China Wood Oil or Nut Oil. The seeds found in the centre of the tung fruit contain more than 50% Tung Oil, which is available when the seeds are ground and pressed. The oil is amber coloured, and contains a high proportion of eleostearic acid.
- GENERAL:** Tung Oil is one of the world's oldest and best natural wood preservers. For over 600 years, the Chinese have used Tung Oil to waterproof marine timbers. The oil penetrates deeply into most porous surfaces, forming an almost permanent Seal against moisture, because it never loses its elasticity. Tung Oil is non-toxic, food safe and the VOC (volatile organic compound) emission is Zero.
- USES:** Can be used as a timber finish and is widely used as a drier in varnishes and paints. Pure Tung Oil is also a most Effective seal for concrete bench-tops, floors, slate/ stone, terracotta, mud brick (adobe) and other similar constructions. The finish is more suited for interior or exterior/protected use than fully exposed exterior, due to lack of UV resistance.
- PREPARATION:** Pure Tung Oil cannot be used over existing skin or film building finishes. These must be completely removed by sanding or stripping prior to application. Ensure the surface to be treated is clean, dry and free of sawdust etc before application. Where possible a wash/scrub with Organoil Wash-A-Way is recommended especially if staining is evident.
- APPLICATION:**
- A) For a matt finish on concrete: NOTE: NEW CONCRETE MUST BE CURED PRIOR TO APPLICATION**
- 1) On a clean & dry surface apply undiluted Tung Oil with a brush or roller
  - 2) Leave until absorbed into the surface then reapply (2-4) applications is recommended
  - 3) After the last application and when surface is tacky –wipe off the excess then leave to dry in good ventilation
  - 4) Buff with a dry cloth or lambs-wool fitted to a power sander or polishing machine (smooth surfaces only)
  - 5) Leave to harden/ cure for a minimum of 72 hours before using or wetting.
- Note: If seeking a more lustrous finish the “Wet on Wet” sanding procedure should be followed - refer advice sheet**
- B) For raw timber**
1. On timber, pure Tung Oil is too thick to be applied direct. It should be thinned to give greater coverage and better penetration. A good ratio to start with is 50% Tung Oil and 50% solvent. (An ideal thinner for pure Tung Oil is Citrus Terpene) This ratio should be adjusted according to the density of the timber. A hardwood should have more solvent and less Tung Oil, whereas a softwood would have more Tung Oil and less solvent. Pure Tung Oil can be used without thinning to seal raw concrete or earth construction (adobe etc.)
  2. Apply a thin coat to all accessible sides of the project. The mix can be brushed, clothed or sprayed. Work well into the surface, and wipe off any excess. Allow to dry overnight, then buff with fine grade steel wool or fine (600 grit) wet and dry sandpaper.
  3. Apply a second coat as above. Additional coats may be applied if the timber still looks dry, but avoid trying to build a film with too many coats, as the ultimate finish may look patchy and dull, and will remain sticky.
  4. Allow the oil to fully cure before subjecting to moisture. Drying time will be variable depending on the number of coats, moisture content of the timber and the ambient temperature and humidity while drying. Drying time may be as long as 28 days.
- COVERAGE:** Anywhere from 1 to 12 square metres per litre, depending on the porosity of the surface it is applied to.
- SIZES:** 1 & 4 litre
- MAINTENANCE:** To clean, wipe surface with a mild solution of water and detergent. A plant based soap is better, as a chemical detergent may strip oil from the surface. Use a synthetic scourer to remove grime. In need, apply a light coat of oil mix as above.
- HANDLING:** Store with lid tightly closed in a cool place. Clean up with a solvent such as citrus turpentine, then clean in warm soapy water.
- SOAK CLOTHS IN HOT SOAPY WATER, RINSE AND HANG TO DRY AS THEY MAY SELF IGNITE IF LEFT UNATTENDED.**  
Keep out of reach of children-Use in a well ventilated area - If swallowed, seek medical advice.