

4. TMT HARDENED WITH WAX = ECO WOOD

Thermo treatment of timber does not increase the timber hardness and provides only limited protection against water absorption in timber that is in direct contact with rain water. This is a limitation when TMT is used for applications such as decking. In such applications, the performance of TMT can be improved by impregnating the surface of the timber with a wax that hardens the timber and reduces the rate of water absorption in timber exposed to liquid water. The wax is often combined with pigments to reduce UV-degradation in the timber and to improve the long term appearance of the treated wood.

4.1 Properties

- i) Makes the timber surface harder
- ii) Reduces the uptake of water in timber that is exposed to direct contact with rain water.
- iii) Makes the timber less prone to surface cracks during weathering.
- iv) Can be combined with pigments for protection against UV-degradation and for improving the appearance of the timber.

4.2 Applications

- i) Decking
- ii) Exterior cladding
- iii) Garden furniture



5. AMMONIA TREATED = SMOKED OAK

The heartwood of timber species such as European oak and certain Eucalyptus species are characterized by having a high natural content of tannin that turns the timber almost black in color when treated with ammonia, and this black color is very popular at the moment for production of high quality furniture and flooring.

The treatment with ammonia affects only the aesthetic properties of the timber. Other properties remain unchanged.

5.1 Properties

Attractive dark brown to almost black color.

5.2 Limitations

Only effective on heartwood in timber species such as oak and certain Eucalyptus species with a high natural content of tannin.

5.3 Applications

- i) Interior flooring.
- ii) Interior furniture

