

## Sf – Surface Functionalization

The use of wood has a long tradition and wood is a widely available material with unique properties. However it is susceptible to degradation by UV-light, bacteria, fungi and insects when in humid environments. To protect the wood surfaces coating systems are commonly used. Nevertheless, the coating systems are subject to degradation processes of the used polymers, and these surface coatings also need maintenance procedures depending on the weathering conditions and the coating systems.



The aim of this project is to functionalize wood surfaces for the improvement of wood properties (e.g. colour stability). Various preprocessings of the different wood materials were analysed. The results show a high potential of possible wood surface functionalizations. Further investigations are necessary.



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