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Effects of water glass, silane and DMDHEU treatment on the colonisation of wood by sapstaining fungi

By Antje Gellerich

Cuvillier Verlag Mrz 2011, 2011. Taschenbuch. Condition: Neu. Neuware - The objective of this study was the investigation of the resistance of modified wood against sapstaining fungi and the investigation of the influences of fungal growth. Specimens of Scots pine sapwood (*Pinus sylvestris* L.) and Beech wood (*Fagus sylvatica* L.) were investigated after being treated with an amino-alkylfunctional oligomeric siloxane, a sodium water glass solution and 1,3-dimethylol-4,5-dihydroxyethylene urea (DMDHEU). The following is a structured outline of this study: Laboratory tests for the resistance against the blue stain fungus *Aureobasidium pullulans*. The objective was to develop a laboratory test method against blue stain for modified wood as well as the determination of the resistance against blue stain. After definition of a suitable test method, the laboratory tests displayed an improved resistance against blue stain for all tested modified wood specimens. Regardless of the wood species, the fungal infestation was reduced but not inhibited. Among the treated specimens, the water glass treated specimens showed the lowest, the siloxane treated specimens the highest infestation respectively. Field tests for the determination of the resistance against sapstaining fungi. The fungal infestation was investigated during outside exposure of the specimens. The infestation of the modified specimens was decelerated. The specimens were infested mainly by ascomycetes and deuteromycetes which are ubiquitous. The fungal composition displayed only marginal...



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