COST Workshop "Basics for Chemistry of Wood Surface Modification"

SURFACE PROPERTIES OF CROATIAN HEAT TREATED WOOD FLOORINGS

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April 25-26, 2012

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Heat treated wood

- excellent substrate for finishing
- surface colour is not resistant to light

Matherials:

- heat treated ash, beech and hornbean wood at 190 and 212°C
- oil, wax, 2k PU solvent based varnish, water based warnish, and nano impregnation

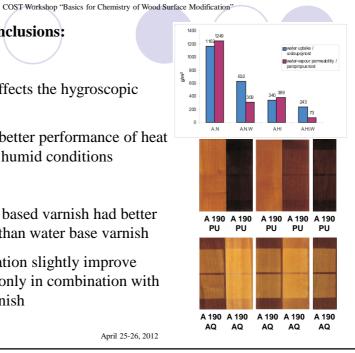
Studied properties:

- water vapour and liquid water permeability
- colour stability

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Results and conclusions:

- 1. Oil and wax
- significantly affects the hygroscopic properties
- contributes to better performance of heat treated wood in humid conditions
- 2. Varnishes
- 2k PU solvent based varnish had better colour stability than water base varnish
- nano impregnation slightly improve colour stability only in combination with water based varnish



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