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
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**The Effects of Wood Bleaching Chemicals on The Surface Gloss and the
Adhesion Strength of Varnishes**

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Abstract: In this research, sodium hydroxide + hydrogen peroxide, sodium hydroxide + calcium hydroxide + hydrogen peroxide, hypochlorite and hydrochloric acid were applied to pine (*Pinus sylvestris* L), oriental beech (*Fagus orientalis* Lipsky), ash wood (*Fraxinus lanceolata*) and oak (*Quercus petraea* spp.) for bleaching. Next, acrylic, synthetic, polyurethane and acid-catalyzed varnishes applied on the bleached wood samples. Afterwards, the effects of these bleaches on the surface brightness and the adhesion strength of varnishes were studied. The results indicate that the bleaching agents used did not affect surface gloss, whereas the type of wood and varnish did. Acrylic varnish yielded the glossiest surface while acid-catalyzed varnishes gave the least glossy surface. It was determined that the HCl solution had decreased the adhesion strength of varnishes.

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