



# Some aesthetic decorative features of varnished surfaces

Emilia-Adela Salca, Tomasz Krystofiak, Barbara Lis

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# Objective

- The present study focuses on some decorative features of coated wood surfaces as a function of two varnish types.
- Adhesion strength, surface glossiness and the effects of dry heat test and chemo-resistance were evaluated.



# Material and method

Planned specimens made of black alder wood were subjected to parallel sanding with two grit sizes, 100 and 150, respectively.	Coating System and Device		
	Spraying		
	Spray Gun		
Varnish Product	A	100% UV Varnish	
	B	Water-borne Varnish	
2 Layers - light 220 grit sanding between layers			
Test and Device			
Adhesion strength	Surface glossiness	Dry heat Hot device (70°C)	Chemical resistance (paraffin, water, alcohol and coffee)
<u>PosiTest</u> - AT tester	PICO GLOSS 503 gloss meter		
			

# Results

- The samples coated with the water-borne product presented higher adherence values (1,39 MPa) when compared to those specimens varnished with the UV product (1,13 MPa).
- The samples varnished with the UV product exhibited better glossiness at 60° geometry.
- Alcohol was noticed to be the strongest agent.

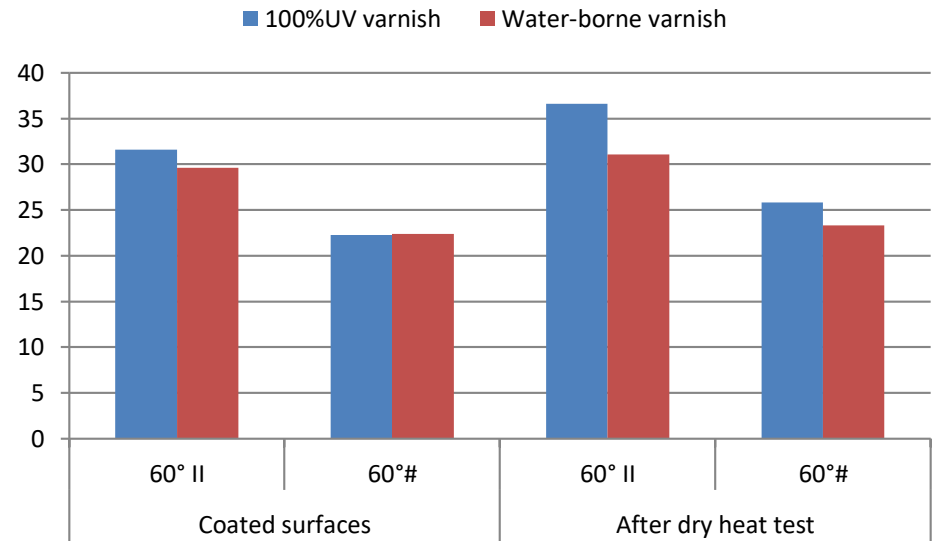


Figure 1: Variation of gloss as a function of varnish type and resistance to dry heat

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# Thank you for your attention!

