

# Root-inspired grafting of wood surfaces with hyperbranched polymers for enhanced interfacial adhesion with impregnated decorative paper

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It is noteworthy that this video characterization method was used in the experimental work on cracking resistance test. Firstly, it was used to set the temperature of the blast drying oven to 70°C. After that, I-160°C-HBP-NH<sub>2</sub>-GB and I-NW were passed into the oven for 24 hours, respectively, and finally, they were taken out of the oven and the number of cracks was counted. From the video, it can be observed that I-160°C-HBP-NH<sub>2</sub>-GB did not produce cracks, while I-NW produced a number of cracks. This means that a waterborne hyperbranched polyurethane that offered outstanding crack resistance to surface-decorated blockboards was made.