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Investigation Of Usage Possibilities Dyed Material From Cherry Wood Bark In Color Paper Production

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Abstract

Paper can be exposed to external influences such as mechanical, physical and biological depending on place of use. One of these effects is sunshine. When paper exposed to direct or indirect sunlight changes color. Depending on the place of use, it is expected that the color of the paper will not be affected by the sunlight or that it will provide long-term strength. In this study, some of the hardwood, the bleached pulp produced by the chemical-thermomechanical pulp (CTMP) method was used. For the coloring of paper pulp, the cherry bark was boiled with water and 1-2% KOH. According to the control papers, 1-2% of aluminum sulfate was added as a mordant to increase the durability of the paint. The resulting papers were subjected to accelerated aging test with a maximum of 150 hours at a light intensity of 0.85 W/m². Color and opacity measurements were made from the surface of the samples subjected to aging test for 10-25-50-100-150 hours. After a period of 150 hours, minimum color changes were obtained with In the group of 2% screed in the water of cherry wood crusts.

Keywords: Cherry bark, Chemical-thermomechanical pulp (CTMP), Paper, Weathering