SETSCI Conference Indexing System,
Volume 2 (2018), 104-104

ISAS 2018
I[st] International Symposium on Innovative Approaches in Scientific Studies

Effects Of Upper Surface (Nanotechnology Varnish) Materials On Technological Properties Of Unimpregnated/Impregnated Wood

Hatice ULUSOY[1+], Mehmet ÖZCAN[2], Osman PERÇİN[3], Abdi ATILGAN[4*], Hüseyin Peker[5]
1Muğla Sıtkı Koçman University, Köyceğiz Vocational School, Program of Forest, Muğla, Turkey
[2]Hacettepe Üniversitesi, Tıp Fakültesi, Biyokimya Anabilimdalı, Ankara
[2]Necmettin Erbakan Üniversitesi, Sanat ve Tasarım Fakültesi, İç Mimarlık ve Tasarım Bölümü, Konya
[4]AfyonKocatepe University, Vocational School, Department of Furniture and Decoration, Afyon, Turkey [5]Artvin [5]Coruh University, Faculty of Forest, Department of Forest Industrial Engineering, Artvin, Turkey
[*]Corresponding author: dashing0343@hotmail.com
[+]Speaker: hatice.tirasulusoy@gmail.com
Presentation/Paper Type: Oral / Abstract

Abstract- In this study, spruce wood's boric acid and nano technological varnish different vacum/ diffusion in time impregnating with respect to ASTM 1413-76 standards and the changes on technological features are researched. Retention percent, bending strength, modulus of elasticity were determined.

According to the results of the experiment; the highest retention was 40 minutes vacuum and 60 minutes diffusion (8.35%), the lowest 20 minutes vacuum, 60 minutes diffusion (3.10%); The mechanical properties of the high bending resistance value of 20 minutes vacuum at 60 minutes diffusion (89.68 N/ mm^2) and modulus of elasticity in bending highest nano technological varnish (10300 N/ mm^2 were determined.

Keywords- Wood, Technological Properties, Furniture