

Effect of concentration, temperature and time in plating *Gigantochloa apus* with Cu-Chitosan for Colour Protection of Bamboo

Henni Mariana

Departement of Chemistry, Faculty of Mathematic and Sains, State University of Jakarta, Jl. Pemuda No 10, Rawamangun 13220, Jakarta, Indonesia

Gigantochloa apus is a part that is often used for crafts and housewares. Natural green color of the *Gigantochloa apus* is one of the main attraction. However, until now still not been found safe material used as a coating to retain the color of *Gigantochloa apus*. This study aims to find the right ingredients to maintain the color of bamboo rods *Gigantochloa lear*. These results indicate that Cu-chitosan with 5% concentration, soaking temperature 40°C and 70 minutes immersion time. Natural green color of the bamboo rod *Gigantochloa apus* under treatment at least color changes when exposed to free air for 21 days.

Keywords : *Cu-kitosan, Gigantochloa Apus, Dip Coating, Colour Protection.*