

Pengaruh Variasi Aktivator Pada Water Transfer Printing Terhadap Kecepatan Pengerinan Dan Ketahanan Cat Terhadap Panas Pada Media Alumunium (*Effect of Activator Variation in Water Transfer Printing on Drying Speed and Heat Resistance of Paint on Alumunium Media*)

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ABSTRACT

This study aims to determine the effect that appears on the long drying time and heat resistance of the paint with the activator manufacturing method. In this study, the activator used is made of a mixture of thinner polyurethane with M3 liquid which will be compared with activators that are ready to use from factory products sold. Between thinner and liquid M3 has mixed variations of PU-4, PU-6, PU-8 and PU-10/ml from a total mixture of 100 ml of M3 liquid. After testing the specimens made, this study resulted in data. In the dry test, a good paint mix activator is located in the PU-6 mixture, with a fast time of 2148 seconds. In the paint resistance test against heat, the best mixture in retaining heat lies in the PU-4 mixture with a long heat holding time of 4716 at a temperature of 100°C, at a temperature of 125°C and 150°C lies in a mixture of PU-6 with a long time of 4220 and 3360 seconds.

Keywords : *Thinner Polyurethane, M3 Liquid, Paint Dryness Test, Heat Resistance Test*