

**UNIVERSITI TEKNOLOGI MARA**

**NATURAL FINISHING PERFORMANCE OF  
ACID CATALYSED (AC) AND  
NITROCELLULOSE (NC)  
ON LUDAI (*Sapium baccatum*) WOOD**

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# **NATURAL FINISHING PERFORMANCE OF ACID CATALYSED (AC) AND NITROCELLULOSE (NC) ON LUDAI (*Sapium baccatum*) WOOD**

## **ABSTRACT**

This research was carried out in order to determine the finishing properties on Ludai (*Sapium baccatum*) wood surface. The samples were applied natural finishing such as acid catalysed (AC) and nitrocellulose (NC). Cross cut test, pull off test, impact test, abrasion test and resistance to household test were carried out accordance ISO 2409:2007, ISO 4624:2002 and ASTM D 4060 – 07 and ASTM d 1308-02 (ASTM, 2007) standard respectively. The results show that the sample applied using two by two system (2 basecoat + 2 topcoat) was gave better finishing quality as compared to one by one system (1 basecoat + 1 topcoat). The application of AC and NC as finishing materials shows the Ludai wood easily worked through spraying technique. From the observation proved that the finishing provides spray evenly and highlighted the natural patterns of wood which revealed the aesthetic value of the timber. It can concluded that the Ludai wood is applicable to use AC and NC as finishing materials and as well as providing a good surface quality performance.