

Antimicrobial property of lacquer sap powder with different sizes and curing conditions

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Lacquer sap has been generally used as a natural paint and coating material for thousands of years in Asian countries because of good properties such as good durability, thermal stability and mechanical property. Furthermore, these lacquer sap possess antimicrobial property and gives superior protection against oxygen and water. However, practical use of liquid lacquer sap has a difficulty due to allege reaction of skin and low curing rate. In this study, lacquer powder was prepared by simple method for the industrial application with safety and ease. Also antimicrobial property against Gram-positive bacteria such as S.aureus was tested by shake flask method. In addition, antimicrobial property of lacquer sap powder with various curing conditions and size distribution was analyzed.