

ABSTRACT

Wood dust waste material is a by-product of the furniture industry that is often considered worthless and disposed of by burning which pollutes the environment. The purpose of this research is to explore the potential of sawdust waste as an alternative material in the design of interior decoration lighting products that are environmentally friendly and have aesthetic and functional values. This research uses an exploratory approach and the SCAMPER method, conducting various experiments mixing wood powder with binders such as epoxy resin, water-based acrylic resin, and PVAc glue. With a case study at PT Griya Fortuna Internasional, data was collected through observation, interviews, questionnaires, and literature studies. The results showed that sawdust waste can be used as an alternative material in making interior decoration products by mixing it with other composite materials. The designed product starts with material exploration, idea sketching, prototyping, and product testing. Survey results showed high interest in sawdust-based interior decorations, with a preference for minimalist styles and neutral colors. The resulting products not only support waste management, but also aim to increase economic added value in the creative industry. This research will contribute to the innovation of sawdust waste management that supports the principle of sustainability.

Keywords: *Sawdust Waste, Interior Decoration, Sustainable Design, Material Exploration, Scamper.*