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ABSTRACT

RESEARCH AND DEVELOPMENT ON RADIATION CURING OF SURFACE COATINGS IN INDONESIA. Research and development on curing of surface coatings by using electron-beam (EB) and ultra-violet (UV) radiation have been done on various kind of wood panel substrates, such as plywood, particle-board, parquet flooring, and some commercial timbers. Experiments on other substrates, such as ceramics, asbestos and gypsum are being developed intensively. Moreover, test production has been done on plywood, particle-board and parquet flooring. Coating work services are given to the companies, which in their business need coated wood panels or flooring. These irradiated coated products have been used for laboratory equipment, office building, house and mosque.

ABSTRAK

PENELITIAN DAN PENGEMBANGAN PELAPISAN PERMUKAAN DENGAN CURING SECARA RADIASI DI INDONESIA. Penelitian dan pengembangan pelapisan permukaan dengan curing secara radiasi menggunakan berkas elektron dan sinar ultra violet telah dilakukan pada berbagai jenis kayu, yaitu kayu lapis, papan partikel, lantai parket dan beberapa macam kayu perdagangan. Percobaan pada substrat yang lain, misalnya keramik, asbes, dan gipsum sedang dilakukan secara intensif. Demikian juga produksi percobaan telah dilakukan pada kayu lapis, papan partikel dan lantai parket. Layanan pelapisan juga telah diberikan kepada beberapa perusahaan yang dalam usahanya memerlukan panel-kayu atau lantai dari kayu yang sudah dilapisi. Produk-produk yang sudah dilapisi ini telah dipakai untuk peralatan laboratorium, bangunan kantor, rumah, dan lantai masjid.

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