

Contract No: RETEX 10133497

Title: Study and Improvement of the Parameters of Industrial Production of Laminated Particleboard

Duration: 01/08/1997 – 31/01/1998

Abstract

The main objective of the project was the development of a laboratory testing method for evaluating the quality of melamine impregnated paper used in the production of coated particleboard. A lab method for the determination of melamine, urea and formaldehyde content in the impregnated paper was developed and by using the values obtained, the molar ratio of the MF/MUF resin employed was estimated. The curing kinetic parameters of the resins were determined using Differential Scanning Calorimetry (DSC). The results of the melamine content, molar ratio and remaining curing energy were correlated with the properties and quality of the paper during its industrial application.

CHIMAR cooperated closely with the coordinator of the project, SHELMAN S.A., whose main activity is the production of wood products, having the role of the consultant of resin technology.