

Contract No: IN2-0583I

Title: Special Reactive Latent Hardener for Use in the Wood-Based Panels Industry

Duration: 01/01/1999 – 31/12/2002

Abstract

In the framework of project BRE2-CT94-1409 a latent catalyst was developed, with the aim to be very reactive during the hot pressing of panels but not before it, thus enabling fast resin curing in the press without any pre-curing. This project further evaluated the application of the same technique to other additives such as fire retardant, formaldehyde catcher etc., which are known to impart to the panel desirable properties, but are incompatible with the adhesive used or interfere with the curing process. Focus was given on the scaling-up and validation of the new process for application in the industrial production of particleboard, MDF and plywood.

CHIMAR contributed to the project by implementing the characterisation of the raw materials and the pulping liquors, the evaluation of the pulps as a raw material in board production, the use of the spent liquor in the extension or preparation of synthetic resins, the economic study and finally CHIMAR provided assistance in scaling-up the technology to pilot production.

The technology developed in the framework of this project, is now protected through International (PCT) patent application (WO 98/22549)