

Contract No: BRE2-CT94-1409

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

Duration: 01/09/1994 – 31/08/1996

Abstract

The main objective of this project, in which CHIMAR was the coordinator, was the development of a latent hardener to be used for the curing of the urea- or melamine-formaldehyde adhesives or mixtures thereof in particleboard, plywood and medium density fibreboard (MDF) production and in general wherever the above-mentioned adhesives are used. The hardener developed, generated acidity during the hot press cycle of the manufacture of wood-based panels and not before it, thus enabling fast curing of the urea-formaldehyde resins, and therefore shorter press cycles. Parallel objectives of the project included the reduction of panel moisture in the press as well as the reduction of free formaldehyde emission from the boards.

The project resulted in a PCT application (International Publication No. WO 98/22549).