

Contract No: 99 BE 409

Title: Optimisation of the Manufacturing Process of Special Polymers Employed in the Wood Industry

Duration: 01/01/2000 – 30/06/2001

Abstract

In this project, Computational Fluid Dynamics (CFD, FLUENT) software was employed to simulate the batch operating manufacturing process of the adhesive resins commonly employed in the bonding of composite panels. A further objective was to convert the resin production process to a continuous operating one. The modelling results were verified by trials in a pilot production unit, which was constructed in the framework of the project. Considerations were also made for the design of industrial units producing resins under continuous operation.

CHIMAR, the coordinator of the project and in cooperation with the Aristotle University of Thessaloniki, undertook the whole responsibility of the successful outcome of the project and protected the new technology via a patent application (GB 0122704.0)