

Partners



CCIS - Wood Processing and Furniture Association, Slovenia
SME Association, Lead partner



Internationaler Verein für

Technische Holzfragen e. V.,
Germany
SME Association



University of Ljubljana **University of Ljubljana, Biotechnical faculty - Department of Wood Science and Technology, Slovenia**
Research Partner



Fraunhofer **Fraunhofer Institut für Holzforschung - Wilhelm-Klauditz-Institut, Germany**
Research Partner



Zavod Lesarski grozd **Wood Industry Cluster, Slovenia**
Operative Coordinator of the project

The SME User Committees:

Slovenia:

- LESNA TIP d.o.o.
- JAVOR Pivka d.d.
- ALPLES d.d.
- MELAMIN d.o.o.
- NAFTA Petrochem d.o.o.

Germany:

- Binos GmbH
- Christian D. Markmann GmbH
- Fritz Becker KG Formteile aus Holz
- Sauerländer Spanplatten GmbH & Co. KG
- AGROSYS GmbH & Co. KG
- Advanced Compounding GmbH
- Surfactor Germany GmbH

Contacts

University of Ljubljana, Biotechnical faculty - Department of Wood Science and Technology, Slovenia

Contact person: Dr Sergej Medved
P: +386 1 3203617
E: sergej.medved@f.uni-lj.si

Fraunhofer Institut für Holzforschung - Wilhelm-Klauditz-Institut, Germany

Contact person: Dr. Brigitte Dix
P: +49 531 2155353
E: brigitte.dix@wki.fraunhofer.de

Visit our website:

<http://www.sloles.com/HCHOlessWOOD/>



Development of low Formaldehyde Wood-Based Products (WBP)

Project is co-financed by side of National research founds of AiF Germany and MHEST Slovenia .

CORNET HCHOlessWOOD



The Project

The formaldehyde emission of Wood-Based Panels in Europe is limited by European regulations and voluntary commitments.

The reduction of formaldehyde emission from formaldehyde based adhesives as well as Wood-Based Panels bonded with them has been pursued for many years. In the last years the limits for the formaldehyde emission of WBP changed (e.g. Japanese standard F****, IKEA regulation IOS-MAT-0003, CARB and EPF).

It will become mandatory that producers of Wood-Based Panels and furniture will have to identify and implement solutions to reduce formaldehyde emissions in boards drastically in order to fulfil the new requirements.

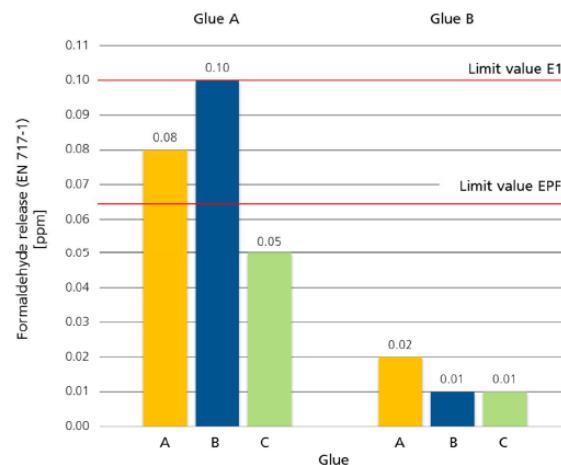
The main goal of the research project "HCHOlessWood" is to find solutions for lowering the formaldehyde emission from Wood-Based Panels. The problem, that are going to address is how to lower the emission of formaldehyde at production and at the end products, what would improve the living and working conditions.

The overall innovation target of the project is to give support to companies with aim to solve the problem with formaldehyde emission.

Project duration: June 2010 - June 2012.

The Results

- Development and implementation of urea-formaldehyde and/or melamine-urea-formaldehyde adhesive with low formaldehyde content for Wood-Based Panels.
- Development and implementation of natural based adhesives from wood and/or agricultural residues, which could lower the formaldehyde content in boards.



- Implementation of formaldehyde scavengers (especially urea and tannin).
- Research on suitable panel production conditions for lowering the formaldehyde emission.

- Implementation of new surfacing/coating material for lowering the formaldehyde emission.
- Development of spectroscopic based models for the formaldehyde emission.

