



<b>Research for the Benefit of SMEs</b>		
<p><b>Title: Development of a solvent-free coating process for wooden facades</b></p> <p><b>Acronym: DURAWOOD</b></p> <p><b>Grant Agreement Number: 232296</b></p> <div style="text-align: center;"></div>		
<b>Deliverable 3.2</b>	Inoculated wood samples	
<b>Associated WP</b>	WP3 – Microbiological Testing	
<b>Associated Task</b>	Task 3.2 – Comparative test of DURAWOOD-treated and untreated wood at laboratory level	
<b>Due Date</b>	M8, 31th July 2010	
<b>Date Delivered</b>	31th July 2010	
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<b>Partners Involved</b>	TTZ	
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<b>Dissemination Level</b>	CO	

## Publishable Executive Summary

This report outlines the work carried out as part of an EC funded project called DURAWOOD - Development of a solvent - free coating process for wooden facades.

The first comparative tests of DURAWOOD treated and untreated wood have been started. For the microbiological testing of wood treated with the DURAWOOD method, wood samples were prepared and treated with the plasma DBD reactor developed by STUBA. These wood samples were inoculated with the wood decaying fungi *Coniophora puteana* and *Trametes versicolor*. After the expiration of the incubation time, the wood test samples will be analyzed with the previously developed PCR method (analyzing the growth into the wood sample) and simultaneously with the EN 113 method (mass loss).

In addition a test method for blue stain fungi was adapted to our laboratory. Thus DURAWOOD treated and untreated wood samples could be inoculated with two of the most frequent blue stain fungi (*Aureobasidium pullulans* and *Sclerophoma pithyophila*). After the expiration of the incubation time the wood samples will be analyzed visually in respect of blue stain.