

Research for the Benefit of SMEs



Title: Development of a solvent-free coating process for wooden facades

Acronym: DURAWOOD

Grant Agreement Number: 232296



Deliverable 2.1	Development of s plasma DBD reactor for trials at laboratory scale
Associated WP	WP2- Laboratory technology validation
Associated Task (s)	Task 2.2 –Development of a plasma DBD reactor for trials at laboratory scale
Due Date	M6 May
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Partners Involved	All
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Dissemination Level	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.

Project partner STUBA (Slovak University of Technology in Bratislava) assembled DCSBD plasma reactor for trials in laboratory scale. Laboratory reactor will be used for evaluation of plasma treatment on wooden surfaces and for finding the proper treatment parameters which will be later used on pre-industrial prototype. Unlike the pre-industrial prototype, laboratory system is not equipped with system for moving wood samples in x,y and z direction and it does not contain touchscreen interface.

Laboratory system uses the last generation of DCSBD electrodes and it is being supplied by newly upgraded high voltage radio frequency power source. There was also assembled gas station, which will feed system with technical gases. Laboratory DCSBD electrode is assembled and ready to be used for treatment of wooden surfaces.