



Safe, sustainable and high-performance adhesives and coatings from softwood bark



95%	Bio-based Content
4.5€	Million Funding
12	Partners
8	Countries

Build Tomorrow With Sustainable Adhesives and Coatings

SuperBark is a Circular Bio-based Europe Joint Undertaking (CBE JU) funded research and innovation project revolutionising wood-based products with sustainable solutions. SuperBark's mission is to create safe and sustainable adhesives and coatings sourced from pine and spruce bark, which are major industrial side streams of the forest industry.

By harnessing advanced extraction technology, the project will develop, test, and validate adhesives and coatings with $\geq 95\%$ bio-based content, which replace fossil-based solutions used in consumer products in industries such as furniture, construction, transport and packaging.

OBJECTIVES

- 1 Use new alkaline extraction and membrane-assisted separation technologies to produce bio-based components from bark.
- 2 Develop adhesives with $>95\%$ bio-based content from polyphenols extracted from bark for plywood, particleboard and medium-density fibreboard.
- 3 Develop coatings with $>95\%$ bio-based content from bark-based cellulose nanofibrils and polyphenols for plywood and paper packaging.
- 4 Ensure safety and sustainability of new products through implementation of a Safe-and-Sustainable-by-Design framework.
- 5 Develop digital tools to support the scale-up and market integration of the adhesives and coatings.
- 6 Communicate, disseminate and exploit the outcomes of the project to relevant stakeholders.



Increase bio-based content of wood products



Improve the recyclability and sustainability of new products



Improve health and safety of consumers

SuperBark is coordinated by VTT Technical Research Centre of Finland Ltd. The consortium consists of 12 partners from eight European countries. The partner organisations include four industrial partners, six research and technology organisations and one small and medium size enterprise.



LUXEMBOURG
INSTITUTE OF SCIENCE
AND TECHNOLOGY



GORIČANE



 www.superbark.eu
 [SuperBark](#)
 [SuperBark_EU](#)
info@superbark.eu

Project duration
9/2023-8/2027