



# LIGNICOAT

## Sustainable COATings based on LIGNIn resins and bio-additives with improved fire, corrosion and biological resistance

# 1<sup>st</sup> PRESS RELEASE Kick-Off Meeting

LIGNICOAT is a Bio-based Industries Research and Innovation Action (BBI-RIA) project that has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No. 101023342 in BBI-2020-S03-R5 topic: Improve the sustainability of coatings. The project is focusing on the development of "Sustainable COATings based on LIGNIn resins and bio-additives with improved fire, corrosion and biological resistance. The coatings industry has been driven by regulatory issues to diminish the content of volatile organic compounds to improve indoor and outdoor air quality, shifting from solvent borne systems (still the preferred choice globally) to waterborne ones. However, even in the case of products labelled as "environmentally friendly" their bio-based content is usually small (up to 30-40%) and therefore new bio-based value chains are necessary. Lignin is an underutilized product with a high potential to provide not only economic returns, but also environmental benefits. Although lignin is a topic of great interest, the conversion of lignocellulosic biomass into real products is not trivial and still no commercial options are available.

LIGNICOAT activities build around the following objectives:

- To develop new intermediate chemical modification routes based on Lignin.
- To develop bio-resins based on lignin intermediates.
- To Improve the sustainability of coatings based on the developed bio-resins with similar performance to fossil alternatives.
- To demonstrate specific high-volume market functionalities based on lignin-based additives.
- To boost significantly the industrial net competitiveness.

This project has received funding from the Bio-based Industries Joint Undertaking (JU) under the European Union's Horizon 2020 research and innovation programme under grant agreement No 101023342. The JU receives support from the European Union's Horizon 2020 research and innovation programme and the Bio-based Industries Consortium.



Bio-based Industries  
Consortium



Horizon 2020  
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## Sustainable COATings based on LIGNIn resins and bio-additives with improved fire, corrosion and biological resistance

LIGNICOAT project proposes the development of eco-innovative materials from lignocellulosic biomass in order to obtain bio-based sustainable coatings. The project officially launched on the 1st of June 2021, and has a duration of 42 months. The multidisciplinary consortium involved in the project constitutes an excellently balanced team in terms of knowledge, expertise and experience with a total of 14 partners from 8 countries across Europe, counting on the participation of 9 industrial partners, more than half of the consortium, for ensuring the exploitation of the outcomes of the technological challenges of LIGNICOAT. The kick off meeting was held virtually, due to Covid-19 travel

restrictions, on the 10th of June 2021, hosted by the coordinator partner FUNDACION TECNALIA RESEARCH & INNOVATION. Our 14 partners discussed the tasks, objectives and structure of the project organisation in order to promote and establish future cooperation and facilitate the flow information on the work plan for the next four years of the project implementation. The LIGNICOAT project aims to increase the bio-based content of the coatings while ensuring performance and providing anti-corrosive, fireproof, and antimicrobial features. The ambitious goal of the project is to assist in the transition of the Paints and Coatings industry from fossil-based to bio-based products.

