

REDUCING CARBON EMISSIONS IN BUILDINGS

SOPREMA and its partners are reinventing building materials as part of the European R&D project HIBISCUS.



The HIBISCUS R&D project aims to develop new bio-based construction materials to reduce dependence on fossil resources and contribute to the objectives of the Green Deal and the bioeconomy strategy of the European Union.

Launched in September, it will be coordinated by SOPREMA alongside eleven European partners, research and technology organizations, SMEs, and large industrial groups.

A major challenge for the ecological transition

The construction sector accounts for a significant proportion of CO₂ emissions and waste. By coordinating HIBISCUS, SOPREMA is committed to tackling a key challenge:



replace fossil-based raw materials with bio-based alternatives in the production of construction materials,



reduce the carbon footprint of our products and promote the circular economy,



ensure technical performance in line with European standards.

A unique European consortium of excellence with concrete innovations to transform the construction sector in a sustainable way

HIBISCUS brings together eleven other European players alongside SOPREMA:

BIOECONOMY FOR CHANGE (France), Cellmat Technologies (Spain), CNRS & University of Strasbourg, CSTB, Fraunhofer (Germany), IFEU (Germany), INDRESMAT (Spain), KRATON (The Netherlands), LEITAT (Spain), University of Liège (Belgium) and VITO (Belgium).



Bio-based innovations for building envelopes

The project aims to demonstrate the effectiveness of bio-based building materials, their feasibility, and their potential for scaling up, enabling the industry to move away from fossil-based construction solutions.

The consortium will work to develop five innovative bio-based products for building envelopes:

- **two roof waterproofing solutions** (raw materials: pine chemistry, waste cooking oil),
- **two thermal and acoustic insulation solutions** (raw materials: vegetable oils, lignin, carbohydrates),
- **one carpentry solution** (raw materials: vegetable oils, lignin).

"These innovations should enable a 25% reduction in carbon footprint by 2029 compared to materials currently on the market, while maintaining equivalent technical performance and compliance with European standards."

Rémi PERRIN - Research and Development Director, SOPREMA.



Circular Bio-based Europe

Joint Undertaking



Co-funded by
the European Union



Bio-based Industries
Consortium

Project budget: €9.2 million, including €7.5 million co-financed by the European Commission's Horizon Europe program and the private Bio Based Industries Consortium (public/private funding)

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R&D at SOPREMA:

- 130 experts
- 24 R&D centers worldwide
- 280 patents maintained and updated

ABOUT SOPREMA



5,14

BILLIONS OF EUROS
IN REVENUE
IN 2024



over **12 300**

EMPLOYEES WORLDWIDE, INCLUDING 5,500 IN FRANCE



over **120**

PRODUCTION SITES AROUND THE WORLD



24

RESEARCH
CENTERS



Since 1908, SOPREMA has been improving people's well-being and protecting their environment with innovative and sustainable waterproofing, insulation, soundproofing and vegetated solutions for builders in the roofing, building envelope and civil engineering sectors.

Press contacts

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