



Biobased Building Blocks from
Biorefinery for Safe Diamond-like and
Biopolyurethane Coating Solutions Under
Extreme and Demanding Conditions of
Use and End of Life

The new generation of biocoatings for extreme and demanding conditions

Why We Must Reinvent Coatings

Coatings preserve materials' **key characteristics** – such as **resistance, durability** and **stability** – helping them withstand wear, corrosion and degradation.

However, today's coatings are still produced **from non-renewable sources**, raising **environmental concerns** and **human health risks**.

In **demanding applications**, coatings must remain effective under **heat, moisture**, and **chemical stress**.

A key challenge for **industry and research**: developing **sustainable alternatives** for such demanding conditions.

Building the Future of Sustainable Coatings

BIO4COAT creates **durable, safe and sustainable coatings**.

Using the **Safe and Sustainable by Design (SSbD)** framework, the project develops **innovative bio-based coating formulations**.



Replace fossil-based materials with **renewable, bio-based alternatives**.

Ensure durability under **demanding conditions**.

Foster circularity and **resource efficiency** across value chains.

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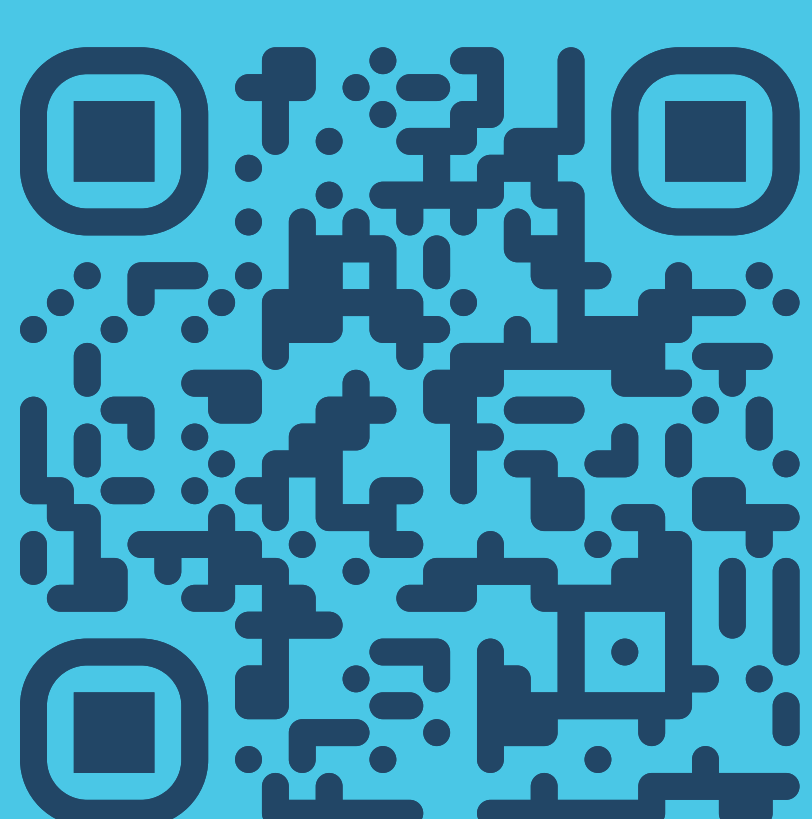
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Industry Testing Scope

BIO4COAT coatings are tested across **eight key sectors**: plastics, hygiene, textiles, agriculture, horticulture, furniture, energy, and construction.

Sustainability Meets Performance

By targeting diverse applications, **BIO4COAT demonstrates** that sustainability and performance can coexist, setting a new benchmark for next-generation coating.



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