

SUSTAINABLE SURFACE PROTECTION BY GLASS-LIKE HYBRID AND BIOMATERIALS COATINGS

BIO-SUSHY AIMS TO DEVELOP A SUSTAINABLE AND SAFE ALTERNATIVE TO THE USE OF PFAS (PER- AND POLYFLUORINATED ALKYL SUBSTANCES) BY DEVELOPING 3 NOVEL COATINGS IN THE TEXTILE, FOOD, AND COSMETIC PACKAGING COATING INDUSTRY.

The BIO-SUSHY project proposes a complete operating framework for the development of innovative organic and hybrid coatings that are both hydrophobic and oleophobic. These coatings will be obtained from bio-based thermoplastic powder and hybrid sol-gel.

Objectives

1. Develop computation tools for Safe and Sustainable by Design (SSbD) of coatings.

- 2. Develop integrated approaches for effective data management and sharing.
- 3. Develop 3 innovative water&oil-repellent organic and hybrid coatings.
- 4. Develop a SSbD framework applied to PFAS-free coatings.
- 5. Integration into standardization process and development of a roadmap.
- 6. Social acceptance enhancement.
- **Develop a sharp innovation and exploitation strategy.** 7.
- 8. Setting-up commercial business plan strategies.

The BIO-SUSHY project is a collaboration between 14 partners from 7 EU countries and 1 EU-associated country: 6 RTDs, 6 SMEs, 1 university, and 1 national association.

> **1 January 2023 - 31 December 2026 (4 years) EU contribution € 4.8 Millions GA number: 101091464**

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