



PFAS-free Bio-based Coatings

A Safe-and-Sustainable-by-Design approach to water and oil repellency

Demonstrated in three strategic markets

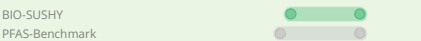
Textile

Organic hybrid sol-gel
23-46% bio-based



Polyester

Water Contact Angle (°)



Oil Contact Angle (°)



- Durability: 10+ wash cycles
- Application: Dip-pad-dry-cure
- Next: Semi-industrial scale-up

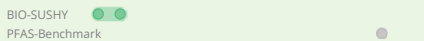
Food packaging

PBS/lignin, PHA/lignin
80-98% bio-based

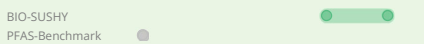


Cellulosic paper

Water Absorption Test (g/m²)



Grease Resistance (KIT rating)



- Compostability: Testing ongoing
- Application: Powder spray coating
- Next: Migration & repulbability testing

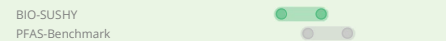
Glass packaging

Inorganic hybrid sol-gel
5-15% bio-based (target 25%)



Glass (cosmetic containers)

Water Contact Angle (°)



Oil Contact Angle (°)



- Property: Sliding effect and high durability
- Application: Internal spray
- Next: Increase bio-based content

Why BIO-SUSHY matters

Our Impact

€40B EU coatings market

450M citizens protected

3 circular value chains

TRL5-6 achieved

- SSbD from day one
- Up to 98% bio-based content
- Water & oil repellency = PFAS performance
- Compostable or recyclable end-of-life
- Reducing health & environmental risks

SSbD Framework

