

Sustainable technologies for advanced material protection

We develop high-performance, advanced bio-based impregnating and coating solutions, leveraging nano deep tech to combine sustainability with industrial-grade performance

🌱 ADVANCED TECHNOLOGY, REDUCED IMPACT

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T-ECO 
invisible innovation, visible results

Application Lines

OPLON® adapts to different application contexts, offering high-performance and sustainable solutions for each sector.

- **Construction, Sustainable Building & Bio-Architecture**
- **Furniture**
- **Garden Center & Outdoor**
- **Marine**
- **Conservation & Restoration**

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VOC emissions in coating systems

Current market landscape

Traditional solvent-based systems—and even water-based products—release volatile organic compounds (VOCs) during application and drying. Emissions are not limited to solvents: **VOCs are present throughout the entire coating cycle.**

Solvent-based

100–400 g/L VOC

Impact

Environmental emissions

Air and soil pollution across the entire value chain

Worker exposure

Health risks in manufacturing and application processes

Regulatory constraints

Increasingly stringent and binding European regulations

Water-based

30–100 g/L VOC

OPLON® | Advanced bio-based protector system



Plant-based

Developed using renewable and biodegradable raw materials



Micro/nano-structured technology

Tecnologia micro/nano che garantisce penetrazione profonda e uniforme



0 g/L VOC

Zero emissions during application and drying



Eco Label

Formulated in alignment with the most stringent European environmental standards



Modular and compatible

Adaptable formulation for color customization and wax-based finishing cycles, fully integrable into advanced finishing systems



Why OPLON® is different

i Provides deep protection without forming a surface film, and enhances subsequent coating cycles

Key benefits

Non-film-forming and vapor-permeable

Preserves the natural character of the substrate without creating surface barriers

Deep penetration for internal protection

Protects from within

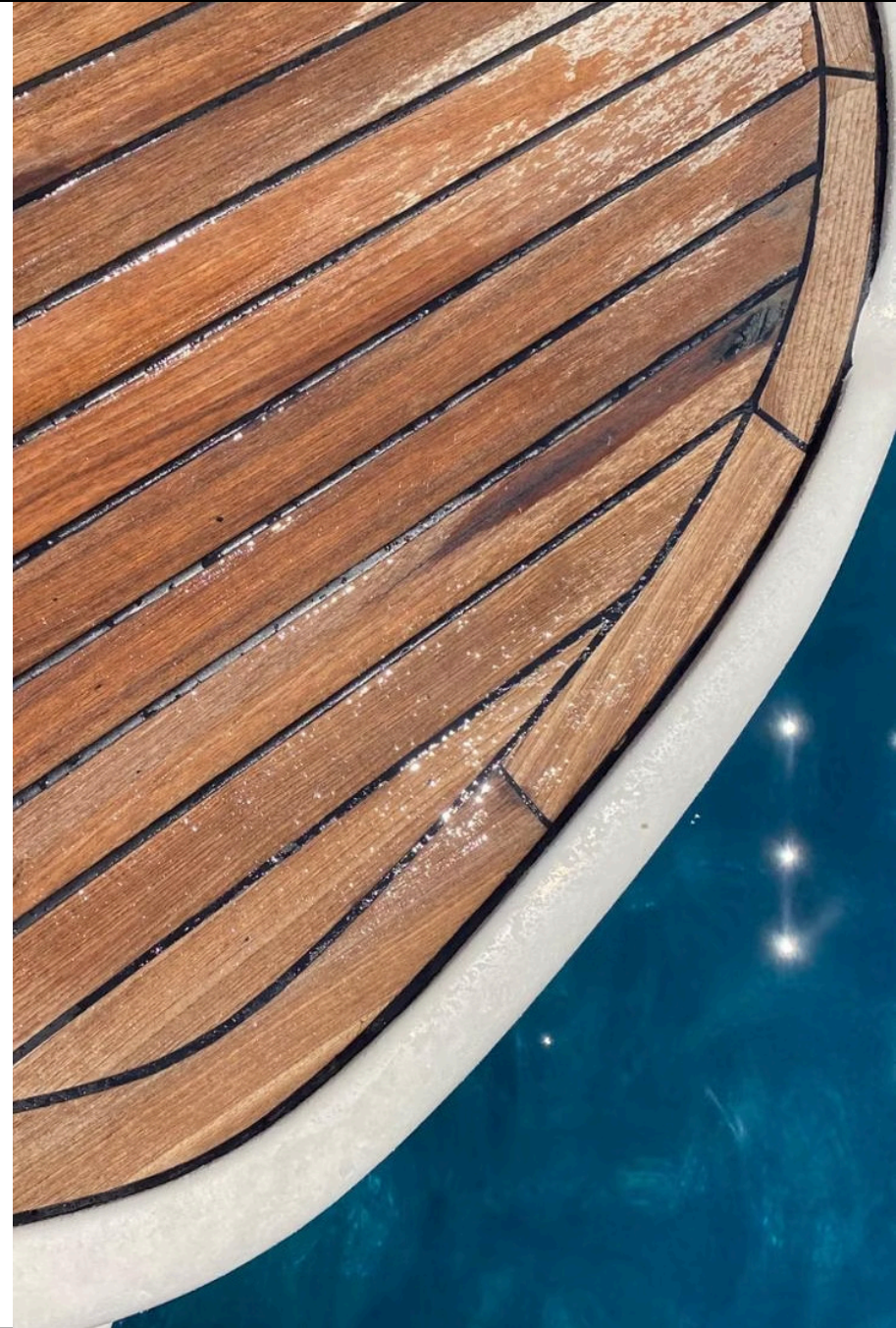
Enhances substrate wettability

Compatible and synergistic with water-based coatings and paints in subsequent application cycles

Zero VOC

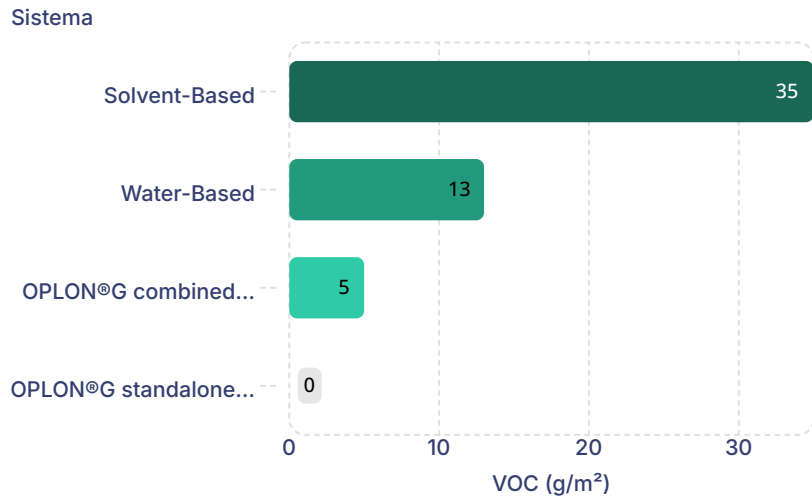
Natural finish, full regulatory compliance

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How much VOC does a coating system generate?

Emissions per complete coating cycle (g/m²)



Even water-based systems emit VOCs. OPLON® reduces them dramatically—down to zero.

35 g/m²

Traditional solvent-based system

~5 g/m²

OPLON® combined system

0 g/m²

OPLON® standalone system

T-ECO powered by Renuvait Nano Deep Tech

Micro and nanostructuring technology applied to advanced materials and sustainable solutions.



Molecular Protection

Functional protection and stabilization of materials and active ingredients.



Performance Structuring

Optimization of properties and performance through nanostructuring.

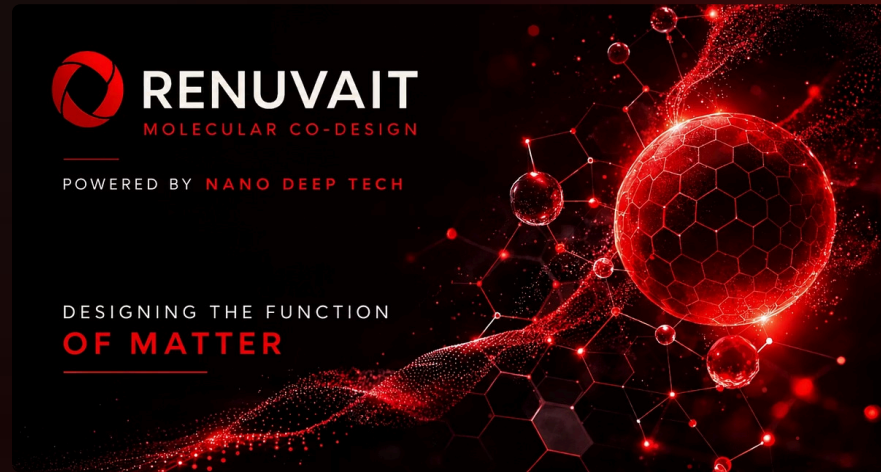


Design for Production

Technology designed to integrate into scalable industrial processes.

Renuvait turns nano deep-tech into real impact: designing solutions that enhance materials, elevate performance, and open new possibilities for industry. Italian innovation with an applied vision to transform complex challenges into sustainable competitive advantages.

Recognized as an academic spin-off linked to the University of Verona ecosystem, Renuvait integrates advanced research, applied nanotechnology, and scalable industrial development.





Executive Team

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Renuvait Nano Deep Tech Platform

Technology partner for advanced micro and nanostructuring applied to sustainable materials.