

Henniker Plasma Launches CoatX®. Advanced Nano-Scale Plasma Coating Technology for High- Performance Surface Engineering.

COATX®. TECHNOLOGY

JANUARY 2025 – Henniker Plasma, UK

Henniker Plasma announces the launch of CoatX®, an advanced plasma-coating technology designed to deliver permanent, nano-scale functional coatings that transform surface performance without altering the underlying material.

CoatX® provides stable, scalable and environmentally friendly surface engineering, enabling permanent surface modification for research, production and high-performance applications.

How CoatX® Works

CoatX® uses controlled plasma-assisted polymerisation, introducing monomer species into the plasma to create uniform, nano-scale polymer layers. These coatings are:

- Permanent and chemically bonded.
- Extremely thin, preserving pore size, airflow and mechanical properties.
- Compatible with polymers, metals, glass, textiles and 3D materials.

The result is a surface with tailored functional behaviour - including hydrophobicity, hydrophilicity, low friction or custom chemical functionality.

Henniker Plasma, a leading manufacturer of plasma surface treatment equipment, announces the launch of its **CoatX® Technology**; An advanced plasma-coating technology.



“With CoatX®, we’re giving customers the ability to tailor surface behaviour with a new level of surface control in surface engineering” **said Terry, Managing Director at Henniker Plasma.** *“The technology allows us to deliver stable, covalently bonded coatings at the nano scale, opening up new possibilities for next-generation devices and advanced materials.”*



PRESS RELEASE

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CAPABILITIES AT A GLANCE

Transforming Surface Performance at the Nano Scale

CoatX® delivers stable, scalable and environmentally friendly plasma-coating processes that modify only the topmost surface layer. These ultra-thin coatings remain colourless, odourless and permanently bonded, ensuring predictable performance and long-lasting functionality.

THE TECHNOLOGY SUPPORTS THREE CORE CAPABILITY PLATFORMS:

PFAS-Free Surface Free Energy (SFE) Modification

Permanent control of surface energy via:



CoatX® SFE. Hydrophobic - Liquid repellent surfaces



CoatX® SFE. Permanently wettable surfaces

Bio-Functional Surfaces:



CoatX® Covabind. Enables reagent-free covalent bonding of biomolecules, supporting biomedical, diagnostic and microfluidic applications.

Low-Friction Coating:



CoatX® Lubril. Creates smooth, ultra-low-friction surfaces for medical devices and performance components.

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ABOUT HENNIKER PLASMA

Henniker Plasma is one of the leading manufacturers of plasma treatment systems for cleaning, surface activation to improve adhesion, and functional nano-scale coating.

Backed up by more than 20 years of experience, Henniker's innovative plasma treatment equipment is trusted globally in both critical industrial manufacturing settings to solve key adhesion challenges, and by leading academic research groups helping to support a wide range of fundamental research.

Henniker's advanced plasma systems are configurable tools that are both robust enough for reliable, repeatable industrial processing and at the same time flexible enough for the research into, and development of, leading-edge plasma processes. They transform materials, adding significant functionality and value.

**For more information about Henniker Plasma visit:
plasmamatreatment.co.uk**



Media Information

For Immediate Release

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