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A UNIQUE SURFACE FUNCTIONALIZATION TECHNOLOGY ENABLING ADHESION, RELEASE, BIO-MOLECULE IMMOBILISATION AND MUCH MORE....

ABSTRACT:

Our Molecular Plasma Technology enables single-step, solvent-free grafting of a wide range of organic molecules as well as bio-molecules onto ANY substrate using a very gentle, single step, atmospheric plasma process.

The novelty of our technology lies in the fact our system is gentle enough and provides the high degree of control required to be able to target and break the weakest bond ONLY of whichever chemistry we introduce into the plasma. This allows us to covalently bind the chosen chemistry/biomolecules onto any surface whilst preserving full chemical and/or bio-functionality.

No other commercially available system is able to do this.

MolecularGRIP™ is a typical application for adhesion improvement on highly inert materials such as Teflon, polyolefins, PEEK, gold, titanium, etc. prior to bonding with a reactive adhesive system.

Please visit our website www.molecularplasmagroup.com and watch the technology videos to get more insight into the technology.