



NANOPOOL

**Glass is probably the world's most versatile new technology ?**

"SiO<sub>2</sub>- ultra thin layering" is the technical term for Liquid Glass.

Apart from a select group of professionals, few people in the UK know about this stunning technology. If you walk around Ataturk's Mausoleum in Ankara you are walking on it; if you visit certain hospitals in the UK you are touching it. If you see an unusually clean train you are probably looking at it, and if you wonder how your white settee looks so clean, you may be sitting on it. All of these surfaces have been coated with invisible glass.

The flexible and breathable glass coating is approximately 100 nanometres thick (500 times thinner than a human hair), and so it is completely undetectable. It is food safe, environmentally friendly (winner of the Green Apple Award) and it can be applied to almost any surface within seconds. When coated, all surfaces become easy to clean and anti- microbially protected (Winner of the NHS Smart Solutions Award). Houses, cars, ovens, wedding dress or any other protected surface become stain resistant and can be easily cleaned with water; no cleaning chemicals are required. Amazingly a 30 second DIY application to a sink unit will last for a year or years, depending on how often it is used. But it does not stop there - the coatings are now also recognised as being suitable for agricultural and *in-vivo* application. Vines coated with SiO<sub>2</sub> don't suffer from mildew, and coated seeds grow more rapidly without the need for anti-fungal chemicals. This will result in farmers in enjoying massively increased yields. Trials for *in-vivo* applications are subject to a degree of secrecy, but Neil McClelland, the UK Project Manager for Nanopool GmbH, describes the results as "stunning".

"Items such as stents can be coated, and this will create anti sticking features - catheters, and sutures which are a source of infection, will also cease to be problematic."

When asked about how the technology works, Neil, said "In essence, we extract molecules of SiO<sub>2</sub> (the primary constituent of glass) from quartz sand, and then we add the molecules to water or ethanol. Unfortunately, as they say in the movies, if I told you any more ....." Neil comments further, "The really clever part is that there are no added nano-particles, resins or additives- the coatings form and bond due to quantum forces. Our research informs us that in all probability, we offer the most versatile coating in the world. We are happy to hear about any other technology which offers the same range of applications. Very soon almost every product that you purchase will be protected with some form of easy -to -clean coating. It just so happens that we offer something that everyone finds fascinating. The concept of spray -on glass is just mind -boggling".

This technology is now available for domestic use in Germany. Full scale retail availability in the UK will commence in early 2010

**Neil is a guest speaker at the Institute of Materials Minerals and Mining on the 9<sup>th</sup> of November.**

For a more detailed technical overview please contact

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