



1. Coated surface without fingerprint.
2. Coated surface with fingerprint.
3. Coated surface without fingerprint.

ANTI-FINGERPRINT COATING MAKES FINGERPRINTS INVISIBLE

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Anti-Fingerprint (AFP)

The Fraunhofer Institute for Manufacturing Technology and Advanced Materials IFAM has developed a novel anti-fingerprint nano-coating. The anti-fingerprint effect means that fingerprints on the surface cannot be seen at all by the naked eye, or only very slightly. Although the fingerprint is actually on the surface, it is essentially “invisible”.

Principle

The AFP effect is realized by applying a nano-coating to reduce the optical contrast of fingerprints. The optical properties of fingerprints are statistically imitated by a non closed, inhomogenous coating (Fig. 1 – 3). The coating has a thickness between 170 and 210 nm. Under the microscope the coating appears as an island like coating

with a blue color impression. It is, however, a highly transparent layer, meaning that the appearance of the surface is essentially unchanged. The coating and the fingerprint are hence no longer visible to the eye.

Coating process

This is a two step process. Firstly a liquid precursor is applied as a thin film. This is then crosslinked by **vacuum ultraviolet radiation (VUV radiation)**. Technology developed at Fraunhofer IFAM such as **LightTM Technology** or the **plasma hybrid coating** can be used here.

Anti Fingerprint Coating Makes Fingerprints Invisible

Mark Steyvers



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