

ANTIMICROBIAL COATINGS

A close-up photograph of a person's hand gripping a bright yellow, triangular handrail. The hand is wearing a diamond engagement ring and a matching band. The background is blurred, showing what appears to be a public space with other people and structures.

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ORMOCER® AS AN ANTI-MICROBIAL FUNCTIONAL COATING

ORMOCER® layers do not have an antimicrobial effect per se, even if the extremely smooth surface means that microorganisms hardly have any points of attack. ORMOCER® formulations can be made anti-microbial through various modifications and additives.

WORKING PRINCIPLE

- Release mechanism: Active ingredients are released from the layer. The advantage lies in the high effectiveness, with a simultaneously low long-term effect.
- With the contact mechanism, the active substances are chemically bound to the matrix so that they cannot be washed out and have very good long-term activity.
- In addition, the function can be achieved via active particles, nanoparticles or photocatalytically.

The effectiveness was tested against the following bacterial strains: *Staphylococcus hominis*, *Aspergillus Niger*, *Saccharomyces Cerevesiae* and *Micrococcus Luteus*.

APPLICATIONS

The chemically strong connection of active ingredients guarantees (if desired) the long-lasting and constant mode of action without migration into neighboring areas (see picture).

FOR THE INDUSTRY

The anti-microbial function can be implemented for a wide variety of materials, e.g. **Metals, Glasses and Textiles.**

