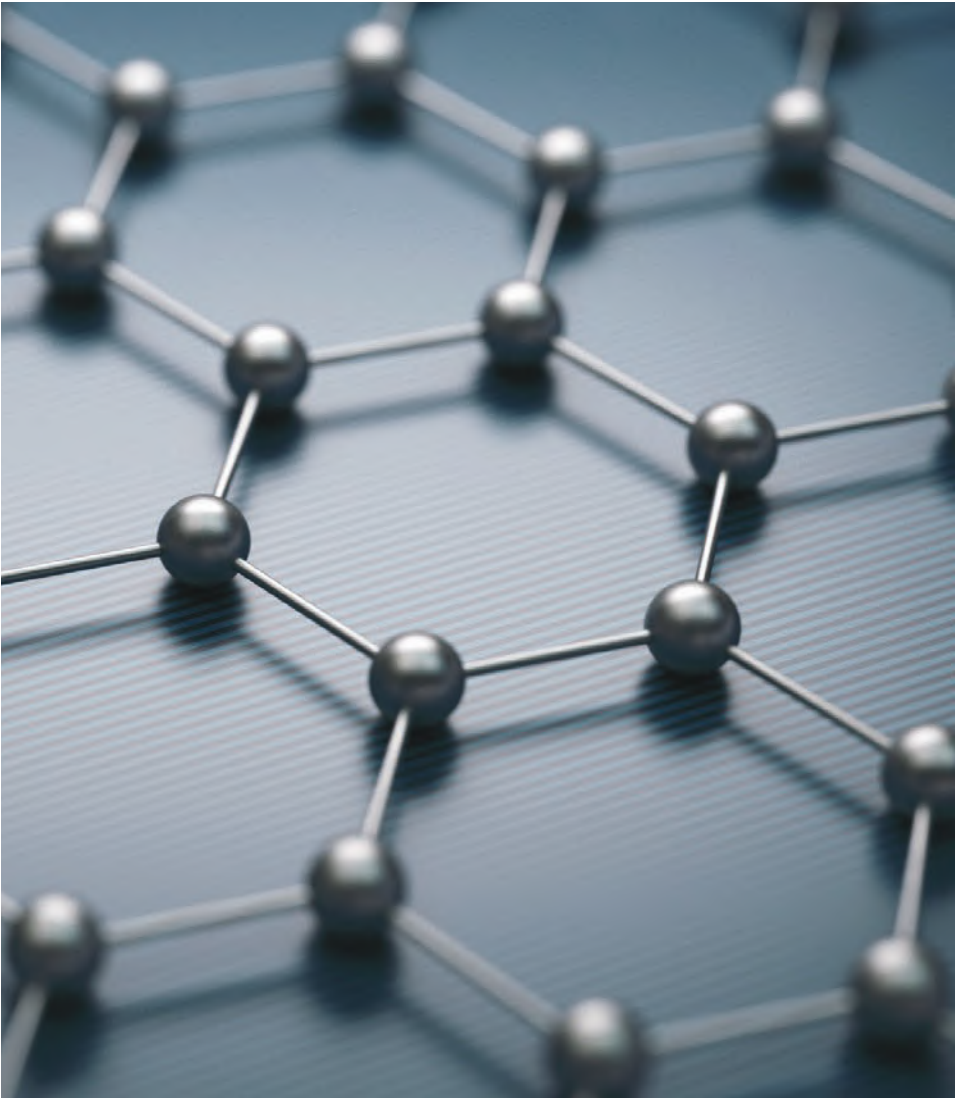


VitrA

VitrA Shield

Self-Cleaning Hygienic Tiles



VitrA Shield

VitrA Shield is an application of nano titanium dioxide (TiO_2) coating on tiles. VitrA Shield can be applied on all kinds tiles for indoor and outdoor use.

Tone variations can be expected in dark colored products as a result of VitrA Shield application.



Photocatalytic
Effect



Hygienic
Effect



Self-Cleaning



Protection from
Airborne Pollutants

Easy to Clean

VitrA Shield tiles are self-cleaning thanks to the photocatalytic features activated by light and humidity in the air, while ensuring biocidal protection with their hygienic properties. The advanced technology of VitrA Shield eliminates unpleasant smells and airborne pollutants in spaces where the tiles are used.





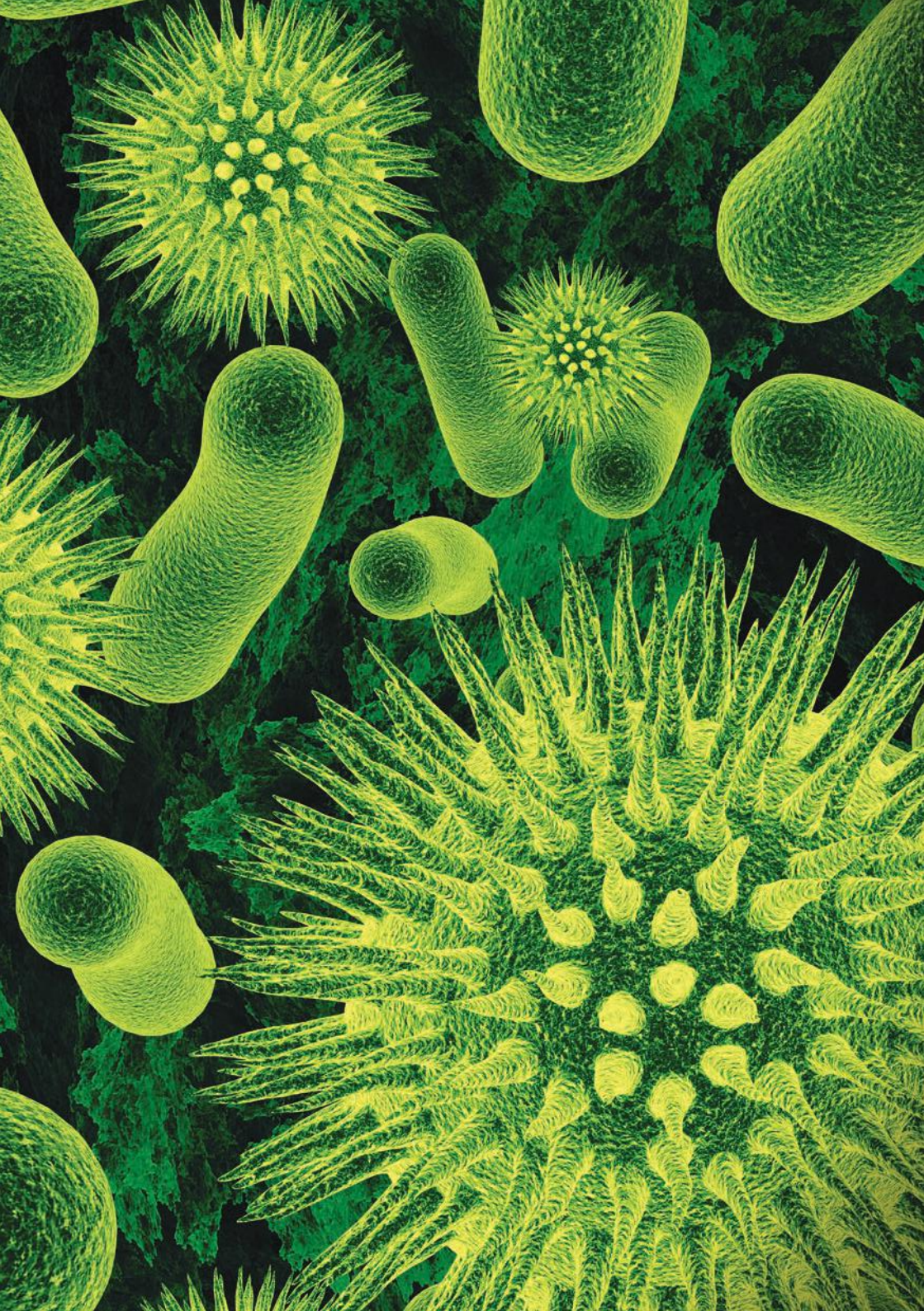
Photocatalytic Effect

Decomposes and eliminates organic pollutants on contact.

Photocatalysis is the activation of the photocatalyst with light at specific wavelength. Electron-hole pair form in the activated photocatalyst which create free radicals. These radicals convert organic and inorganic pollutants into harmless compounds. With photocatalytic coating, removal of toxic organic compounds, purification and sterilization of water can be achieved without requiring human power, extra water or energy.

Photocatalyst is not depleted in this process because electrons return to their original state after the reaction.

The most common photocatalyst is titanium dioxide (TiO_2).

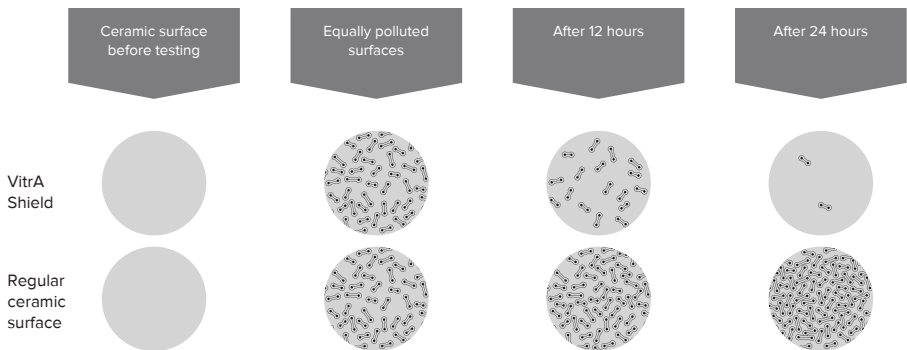




Hygienic Effect

Strong hygienic action that eliminates pollutants.

VitrA Shield is a nanotechnological coating which ensures maximum hygiene and protection on tile surfaces. The biocidal agents used in the coating provide a strong hygienic protection action.



The tests conducted in nationally and internationally accredited laboratories show that VitrA Shield provides 99% biocidal protection.





Self-Cleaning

Self cleans, removes dirt.

VitrA Shield ensures the removal of dust or other dirt particles on the surfaces by spraying with water indoors and by rain outdoors.

Self-cleaning property significantly decreases the amount of water, energy, chemical cleaning agents and labour required for cleaning indoor and outdoor surfaces.





Protection from Airborne Pollutants

Eliminates airborne unpleasant odours and dirt.

With strong photocatalytic action VitrA Shield mitigates the undesirable effects of nitrogen oxides, sulfur oxides and exhaust fumes outdoors as well as bad smells such as sweat, cigarette smoke and airborne pollutants indoors. It is also a perfect solution for disinfectants and other hospital odors.

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