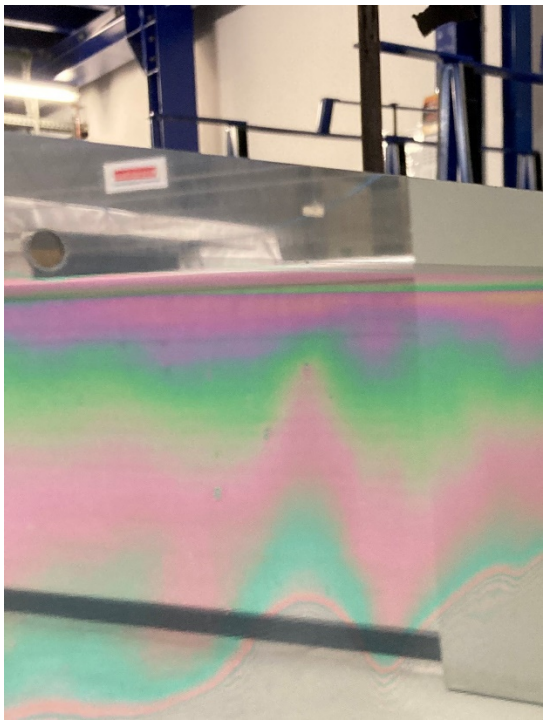
Prinz Optics
Press release
10-01-2021

PRINZ OPTICS
LIGHT BECOMES COLOUR

Innovative methods, new products

We're expanding our range of coatings

Thanks to ultra-thin layers just a few nanometres thick that bond firmly to whatever substrate they're applied to, material properties and functions can be changed. We coat glass, for example, to reduce glare, filter out or reflect certain wavelengths or either protect against or make use of UV radiation.



Photocatalytic coated metal surface

Photo: Peter Röhlen

Anyone, like us, who uses nanotechnology will enjoy so many opportunities to develop methods for manufacturing innovative products:

- the coating of glass, plastic and metal surfaces with nanoparticles. This process produces surface structures made from zinc oxide (ZnO) or colloidal (active) silver, which have anti-microbial properties. This anti-bacterial effect allows the long-lasting disinfection of touchscreens in public places, as well as glasses used in refrigerators.

- The photocatalytic coating of surfaces with TiO2. When activated with UV light, this nanomaterial has the ability to break down organic molecules in the air into CO2 and water. This means that odours and bacteria both in

and on clothing can be removed, for example. Our TiO2 coating is applied as a porous modification of Anatas in order to achieve as large an effective surface as possible.

- Our anti-fog coatings ensure that panes of glass don't get misted up and impair visibility. The coating used is hydrophilic, which means it pulls the mist into a "flat", thin layer of water, avoiding droplet formation and keeping the glass transparent.

- Or we protect glass using a hydrophobic layer on which condensing water forms droplets that can slide off ("lotus effect") and keep the surface clean.

- Our transparent polymer coating makes glass surfaces and glass equipment less sensitive to impact and therefore more resistant to breaks.

We are able to adapt every possible coating function / hybrid function to your requirements and work closely with you to create customised solutions.

Stromberg, Germany, January 2021

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