

GBhydrophilic

Anti fog coating

*NanoTechnology
for excellent surfaces*



Among the variety of solutions for specific applications, GBneuhaus is also able to afford nano coatings with hydrophilic features for surfaces made of plastic or glass, the eponymous **GBhydrophilic**.

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GBhydrophilic

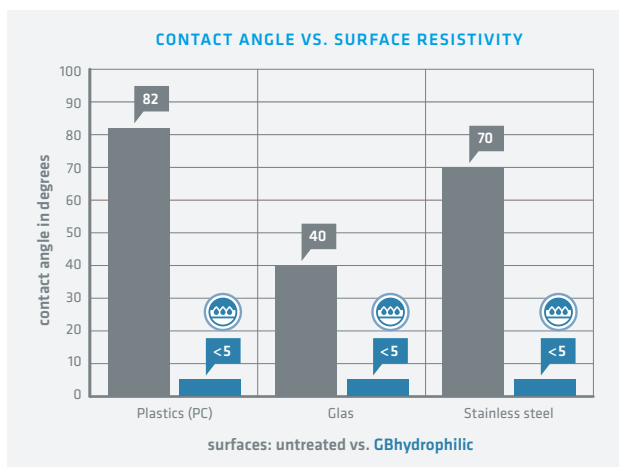
Anti fog coating

SUBSTRATES

- » **plastics** (polycarbonate, ethylene tetrafluoroethylene or polycarbonate films)
- » **glass** (borosilicate glass, soda-lime glass, quartz glass a.s.o.)

PROPERTIES

- » **contact angle for water $\theta < 5^\circ$** (according to DIN 55660-3 2011-12)
- » **maximum temperature load: 200–500 °C** (depending on system)
- » **combinable with antimicrobial function (SANPURE®)**
- » **film thickness from 150 up to 1.500 nm**
- » **no change in optic and haptic quality of substrates**
- » **scratch-resistant** (scratch hardness according to DIN EN ISO 1518: up to 20 N; pencil hardness according to DIN EN ISO 15184: up to 10 H)
- » **abrasive hardness** (cross-cut test according to DIN EN ISO 2409)
- » **chemical-proof to customary detergents and disinfection methods**
- » **transparent, individually coloured on request or proof of presence by fluorescence particles**
- » **mechanically flexible**



SCHEMATIC REPRESENTATION

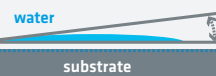
surface: untreated



surface: with GBhydrophilic



contact angle: $\theta < 5$ degrees



TECHNOLOGY

- » **dip coating or spraying**
- » **application process is defined individually according to geometry and requirements of the substrate**

COATING

- » **certified according to REACH and RoHS**
- » **certified according to ISO 9001:2015; processes comply with IATF 16949**
- » **environmental management conforms to ISO 14001**


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NANO COATING SURFACE

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