

GBhydrophobic

Easy to clean coating

*NanoTechnology
for excellent surfaces*



In many areas there is a demand for water-repellent surfaces that are easy to clean. GBneuhaus provides a range of innovative nano-coatings, including the hydrophobic application **GBhydrophobic**, particularly for substrates like metal, plastics or glass.

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GBhydrophobic

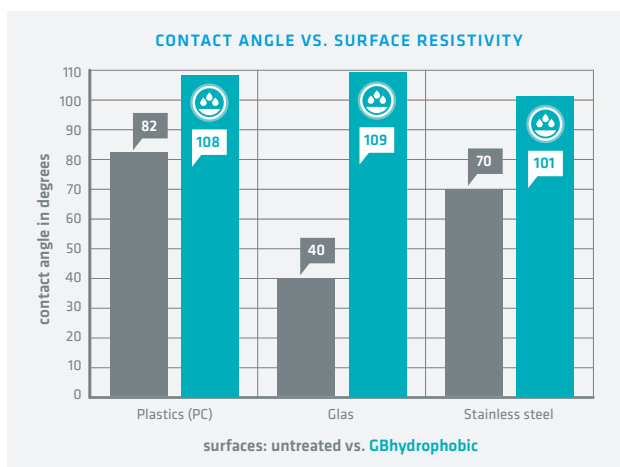
Easy to clean coating

SUBSTRATES

- » **plastics** (polycarbonate, ethylene tetrafluoroethylene or polycarbonate films)
- » **glass** (borosilicate glass, soda-lime glass, quartz glass a.s.o.)
- » **metals and alloys** (e.g. steel, aluminium, copper, brass)

PROPERTIES

- » **contact angle for water $\theta \geq 105^\circ$** (according to DIN 55660-3:2011-12)
- » **maximum temperature load: 200 °C**
- » **transparent, individually coloured on request**
- » **combinable with antimicrobial function (SANPURE®)**
- » **film thickness from 150 up to 1.500 nm**
- » **no change in haptic quality of substrate**
- » **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**
- » **mechanically flexible**



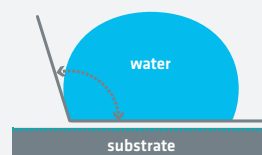
SCHEMATIC REPRESENTATION

surface: untreated



surface: with GBhydrophobic

contact angle: $\theta = 101-109$ 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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