

Antimicrobial Coating

NanoTechnology
Made in Germany



TECHExpert™

TECHExpert Engineering Pvt. Ltd.

CONSULTECH Group Company

NANO TECHNOLOGY VENTURE



GB neuhaus

NANO COATING SURFACE

GB neuhaus GmbH, Germany

Company Profile

We at TECHExpert Engineering Pvt. Ltd. (Pune, India) work together with our partner firm GBneuhaus GmbH (Neuhaus am Rennweg, Germany) to design, develop, manufacture, sell and service specialty nanocoatings based on nanotechnology for surfaces like metals, plastics, glass and ceramic.

As a specialist for innovative coating solutions, our portfolio covers a wide spectrum of functional coating systems for a variety of possible applications – in hospitals, the medical sector, washrooms, the building & construction industry, airports, hotels, public transportation, in offices and at home.

We offer the following unique functional coatings for every possible requirement:

SANPURE® Antimicrobial coating: Prevents the formation of new bacteria and restricts the growth of existing bacteria.

Anti-scratch: Transparent protection layer increases surface hardness and greatly reduces friction.

Anti-static: Anti-static layer reduces the surface resistance of non-conductive materials and facilitates static discharge through the conductive coating.

Hydrophilic: Improves transparency, provides a cooling effect and guarantees zero optical interference.

Hydrophobic: Creates a permanent repellent and non-stick effect against aqueous and organic fluids.

UV Block: Offers effective protection against UV radiation and plastic corrosion (porosity and brittleness).

Infrared Reflex: Offers thermal protection and greatly reduces infrared transmission.

Infrastructure



Corporate Office

116 Siddharth Towers,
Off Karve Road, Kothrud,
Pune – 411038 , India.

Manufacturing Facility

78, Shivane Industrial Area,
Off NDA Road, Shivane,
Pune -411023 India.

Contact

Mob: +91 9890013871 / 9168062620
Email: jvi@techexpertindia.com /
sales@techexpertindia.com
www.techexpertindia.com

Nano Coating Technology Joint Venture between TECHExpert India & GB neuhaus Germany



Nano Coating Technology Product Range



UV Block



Infrared Reflex



Hydrophilic



Anti-scratch



Hydrophobic



Anti-Static



Antimicrobial



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HYGIENIC SURFACES



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SANPURE® Antimicrobial Coating

The SANPURE® coating combines the excellent features of sol-gel coatings with the antimicrobial qualities of silver nanoparticles. That way, the reproduction of dangerous, multi-resistant germs can be reduced lastingly and safely. The agent AGPURE® nanosilver is registered according to EU 528/2012 (No. N-29919, No. N-29916).



SANPURE® Antimicrobial Coating

PROPERTIES

- Reduces the reproduction of dangerous germs between cleaning cycles
- Maximum temperature load: 200 °C
- Film thickness from 150 up to 1.500 nm
- Lifelong antimicrobial effectiveness (according to ISO 22196 / JIS Z 2801:2010; significant antimicrobial)
- Physiologically harmless (biocompatibility according to DIN EN ISO 10993-5)
- Abrasion-resistant (according to DIN EN 60068-2-70; minimum 100,000 cycles)
- 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)
- No change in haptic and optic quality of substrates
- Chemical-proof to customary detergents and disinfection methods
- Transparent, individually coloured on request or proof of presence by fluorescence particles
- Mechanically flexible

SANPURE® Antimicrobial Coating

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

SANPURE® is a registered trademark of RAS AG and GBneuhaus GmbH.
AGPURE® is a registered trademark of RAS AG.

SANPURE® Antimicrobial Coating

Door Knobs / Door Handles for
Hospitals, Offices, Hotels, Malls and Homes



SANPURE® Antimicrobial Coating

Door Knobs / Door Handles for
Hospitals, Offices, Hotels, Malls and Homes



SANPURE® Antimicrobial Coating

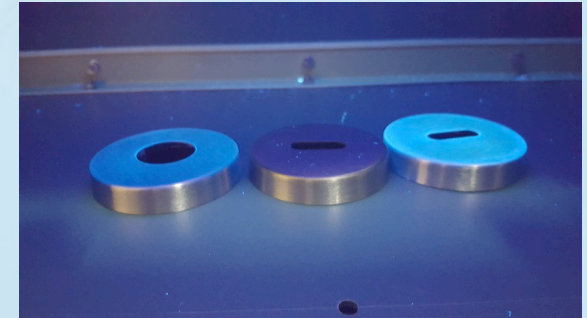
Door Knobs / Door Handles for
Hospitals, Offices, Hotels, Malls and Homes



SANPURE® Antimicrobial Coating

Metal

- Door knob set (stainless steel)
- SanPure K 130 with UV-fluorescent applied by spray coating



Coated vs. Uncoated (exposed to UV light)

SANPURE® Antimicrobial Coating

Handles of Bus, Train & Railways



SANPURE® Antimicrobial Coating

Electric switches



SANPURE® Antimicrobial Coating

Plastic

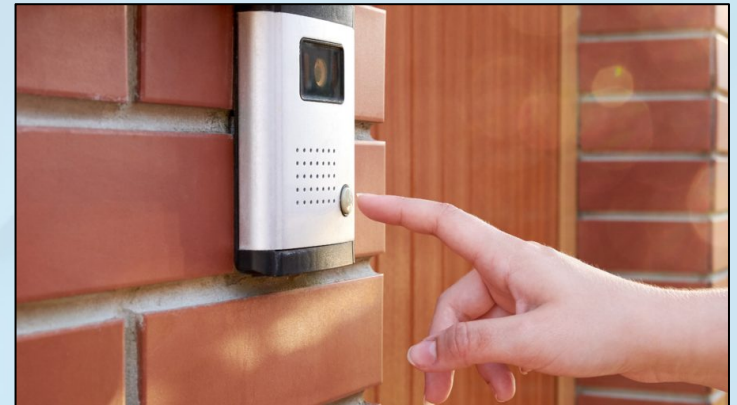
- light switches (polyamide 6)
- SanPure K 130 applied with Uv fluorescent by spray coating



Coated vs. Uncoated (exposed to UV light)

SANPURE® Antimicrobial Coating

Door Bells buttons



SANPURE® Antimicrobial Coating

Elevators Buttons



SANPURE® Antimicrobial Coating

Biometric Machines



SANPURE® Antimicrobial Coating

Glass (Touch screen display)

- 7'' touch screen display
- SanPure K 130 applicated by spray coating



SANPURE® Antimicrobial Coating

All Washroom Flush plates, Taps



SANPURE® Antimicrobial Coating

Plastics

- Flush-operating plate (ABS)
- SanPure K 130 applied by spray coating



Thanks for your attention!

antimicrobial IR-transparency
easy-to-clean
**Yes,
we coat!**
UV-protect conductive hydrophobic
hygiene

hydrophilic

anti-fog

YOUR BENEFIT • OUR SERVICE:
FUNCTIONAL COATINGS

antistatic

Techexpert Engineering Pvt. Ltd.

78, Shivne Industrial Area,
Off NDA Road, Shivne,
Pune - 411023 India.
Mob & WhatsApp : +91 98900 13871
Email: jvi@techexpertindia.com