

## Sol-Gel-Nanocomposite coating

### Pigmented adhesive TopCoat type N(H) 11

#### Properties

- Highly hydrophobic and oleophobic surface
- Easy-to-clean coating
- Minimal coating thickness
- High temperature stability
- Optimized for temperature changes
- Hard and abrasion resistant surface

Physical properties	
Non-stick	very good
Contact angle to water	approx. 105°
Contact angle to hexadecane	> 65°
Heat resistance	up to 150°C
Corrosion protection	>1000h on aluminium
Colour	colourless, transparent
Chemical resistance	
Solvents	excellent
Organic acids and oils	good
Inorganic acids	partly
Inorganic bases	partly

Substrate materials	
Stainless steel	yes
Aluminium	yes
Non-ferrous metals	yes
Glass	yes
Plastics	partly
Coating process	
Coating thickness	1-2 µm
Dipping process	yes
Spray application	yes
Sintering process	yes
Maximal thermal substrate stress	120 – 150°C

#### Fields of application

- **Diagnostics:** Easy-to-clean of hollow needles, high reduction of carry-over (blood, peptides, proteins etc.), improvement of lifetime despite temperature changes (-55°C to +50°C)
- **Chromatography:** Diffusion barrier versus metal ions, coating of capillaries with small inner diameters, coating of needles for analysis
- **Industry / general:** Easy-to-clean surfaces, dirt protection layer, improvement of the mechanical resistance, improvement of the drip off properties for small volumes (i.e. oil)

The information on the datasheet is based on data from our suppliers, feedback from customers and our research. The information is non-binding and for information purpose only. Specific, technical and chemical investigations are gladly carried out according to our customers' specifications.