

Product Data Sheet

NewPro NANOFLEX H9 / VP 12 / VP 16 / VP 20

HIGH QUALITY SiO_2 - COATINGS BASED ON NANO-TECHNOLOGY FOR SMOOTH GLASS AND GLAZED CERAMIC SURFACES

These coatings were designed to enable smooth, glass-like surfaces to have less contact with dirt particles. The hydro- and oleophobic effects cause particles of contamination such as grease, oil, lime and materials from environmental pollution to adhere less to the substrates, and allow them to be easily removed from the coating, i.e. without applying abrasive agents ("Easy-clean" effect).

EXAMPLES OF USE:

- Gel coat of boats
- Plexiglas
and other plastic surfaces

PRODUCT PROPERTIES:

- Glass surfaces in sanitary areas (showers, mirrors)
- Glazed ceramic surfaces (toilets, sinks, glazed tiles)
- Window glass + construction glass (conservatories, high-rise buildings)
- Automotive glass (front + side windows)
- Solar panels

PRODUCT CHARACTERISTICS:

- Strong hydrophobicity
- Strong anti-stick properties
- Excellent easy-clean performance on contamination and lime-scale
- Food-safe (inert)

OTHER PROPERTIES:

- Invisible to the human eye (coating thickness: 100-150 nm)
- Permanent (UV-stable, enormous abrasion-resistance)
- Resistant to temperature change
- Breathable
- Simple application (do-it-yourself)
- Chemical-resistant (except for pH value of 13 or 14)

APPLICATION:

Simple do-it-yourself application makes it suitable for end-customers as well:

1. Manual: Application with circular motion using a clean paper, linen or microfibre cloth.
2. Industrial: Available as polish-coat systems or spray-coating systems.

This SiO₂-coating is completely networked and hardened after 24 hours. The easy-clean effect can only be tested after this hardening phase.

STORAGE STABILITY:

Unopened original containers can be stored for at least 2 years.

Recommended storage- and transport temperature: -3 to 30°C

CONSUMPTION:

Manual: 5-10 ml/m², Industrial: 10-15 ml/m²

ADVANTAGES OF SIO₂-COATINGS IN COMPARISON WITH COMPETITIVE PRODUCTS:

- **Permanence and longevity:**
UV-stability enables functionality for a number of years, approximately the lifetime of the coated surface.
Many competitive products are damaged slowly by sunlight.
- **Abrasion-resistant easy-clean effect**
A permanent chemical bond with the substrate enables excellent abrasion resistance.
Many competitive products can be easily removed by abrasion.
- **Chemical stability**
The product is resistant to almost all standard household and industrial cleaners (with the exception of concentrated lye).
Many competitive products must be reapplied after cleaning the surface.

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The products are ready-to-use. Mixing with other substances or other charges is strictly forbidden.