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1. General product description

Nano EcoLine Universal is a ready to use alcohol based coating for non absorbent hard surfaces such as glass, ceramics, stainless steel, aluminium, other metals and plastics. The coating forms an ultra thin transparent easy to clean layer that significantly reduces the adhesion of dirt, limescale and oils.

The coating has antimicrobial properties, repels water and dirt and does not alter the appearance of the surface. The product is ideal for applications in bathrooms, kitchens, healthcare environments and public spaces.

2. Properties

- Suitable for virtually all non absorbent surfaces
- Easy to use
- Surfaces are easy to clean
- Biostatic helps prevent microbial growth
- Surfaces remain clean for longer
- Dirt adhesion is significantly reduced
- Dirt can easily be removed with water
- Water and other liquids bead off easily
- Ideal for bathrooms healthcare environments and public buildings
- Food safe tested according to EU regulation 10/2011
- Colourless
- Layer thickness approximately 100 nm
- Inorganic

3. Product specifications and chemical properties

Product specifications	Description
Base	siloxane compound silicone free in ethanol
VOC content	99% (780 g/l)
Flash point	14 °C
Layer thickness	approximately 100 nm
Density	approximately 0.8 g/cm ³
Odour	alcohol based
Colour	colourless to pink
pH value	3,0–3,8
Solid content	0,5–1,5%
Viscosity	3 to 5 mPa·s at 20 °C
Consumption	approximately 4 to 10 ml/m ² up to a maximum of 250 m ² per litre
Liquid shelf life	minimum 22 months unopened
Storage	between +5 °C and +25 °C protected from light
Coating durability	up to 2 years depending on wear

4. PFAS free

Nano EcoLine Universal contains no PFAS including PFOS and PFOA.

5. Surface pre treatment

- Clean the surface to be treated thoroughly so that it is free of dust dirt and grease
- After cleaning rinse thoroughly with clean water and allow the surface to dry
- Then degrease again with alcohol for example isopropanol so that residues of surfactants are also removed
- The surface must be completely dry clean and grease free before the coating is applied



6. Application

- Apply only at temperatures between +5 °C and +50 °C
- Spray the liquid onto a lint free cloth for example a smooth pressed quality microfiber cloth. Spread the product evenly over the surface
- The alcohol in the liquid evaporates after a few minutes after which the crosslinking of the coating begins
- Do not touch the surface for at least 15 minutes
- Then polish with a soft microfiber cloth to remove streaks
- The surface can be lightly used after approximately 1 hour
- Full curing is achieved after 24 hours at room temperature

7. Functional test

After 24 hours of curing the performance can be checked using a droplet test.

When water visibly beads off the so called lotus effect the coating is correctly activated.

Aggressive cleaners are no longer required. Surfaces can be easily cleaned with a mild cleaner. Regular cleaning extends the performance of the coating.

8. Packaging

1 litre bottle 200 litre drum 1000 litre IBC

Not available as a concentrate

9. Hazard labelling according to CLP

Signal word:

Danger

Hazard pictograms:

GHS02 flame GHS07 exclamation mark

Hazard statements:

H319 Causes serious eye irritation

H225 Highly flammable liquid and vapour

Precautionary statements:

P210 P233 P280 P305+P351+P338 P337+P313

and other applicable safety statements

10. Transport information

UN1170

Hazard class 3

Packing group II

UN number 1219 isopropanol

Standard transport regulations for liquid packaging apply according to ADR IMDG and IATA

HS code 3208 9019