



Nanoman Stainless Steel & Metal

Nanoman Stainless Steel and Metal Coating uses engineered nano-particles that are measured in billionths of a metre (80,000 times smaller than a human hair) to bond with and form a protective coating on any metallic surface, including painted surfaces.

This invisible, coating has enormous hydrophobic and oleophobic properties, which effectively repel liquids and particles of contamination such as grease, oil, and materials from environmental pollution that would otherwise adhere to the metal surface. This creates the “self cleaning” / “easy-to-clean” effect and negates the need for repeated cleaning and the use of chemical cleaning agents.

With the surface friction being reduced and the surface hydrophobic most contaminants are simply picked up by water (rain or manual spraying) and roll off the surface. Stubborn contaminants can be removed with water in most cases. External surfaces are also protected from weather corrosion and rust.

This product has been specifically engineered to protect metal and cut down on required cleaning time and costs. Savings that can be fed back directly into your bottom line. It is highly recommended for use in all public places where large-scale cleaning costs exist or indeed for business owners in the cleaning, mining, fishing and transport industries looking for a smarter way of protecting their assets or doing business.

Examples of use:

- Kitchens (industrial and domestic)
- Building facades and exteriors
- Metal railings and walkways
- BBQ's and basins
- Marine craft railings, fittings and engines
- Wet, humid and/or ocean environs where corrosion and rust are a factor
- Machinery and transport

Product characteristics:

- Strong hydrophobicity (water pearls off)
- Strong non-stick properties (prevents the usual build up off contaminants)
- Excellent easy-clean effect (self-cleaning on external surfaces)
- Invisible to the human eye (coating thickness: 50 - 60 nm)
- Simple application (do-it-yourself)
- Leaves no oily residue or effect
- Biologically safe and Ecologically beneficial



Application:

The wearing of gloves is recommended. Use only in a well ventilated area and do not expose to naked flame.

The most important step in the application is actually preparing the surface. This must be completely clean, dry and free of all grease, dirt, oils, scale residue and other contaminants prior to application. We recommend the use of Nanoman Pre-Cleaner to rid the surface of any cleaning product residues and to ensure surface is dry prior to application.

- Best method of application (is by spaying).
- Product should be spread out by rubbing with a soft cloth (microfiber) or polished on using a slow rotation device

The surface should be allowed to dry for one hour (longer if in high humidity). After this, the coated surface should be wiped down or polished (using Nanoman Pre-cleaner or meths) to remove any remaining residue. This final step will help strengthen the coating and provide a clean and streak free finish. It will reach its optimal performance after 24 hours and should be kept dry during this period if possible.

Storage stability:

- Unopened original containers can be stored for up to 2 years.
- Recommended storage and transport temperature: -3 to +30°C
- Store out of direct sunlight and in a dry environment

Consumption:

- Spray application: 10 -15 ml/m²

Durability:

Due to the strong bond with the surface substrate, Nanoman Stainless Steel and Metal Coating can be effective for up to 5 years, but this is dependent upon the environment and mechanical stresses the metal surface is subject to.. To maintain maximum performance treated surfaces should be checked annually and we recommend reapplication every 2 to 3 years to ensure maximum protection..

Advantages of Nanoman:

Permanence and longevity - The UV-stability enables functionality for an extended period of time. The coating is not damaged slowly by sunlight and is abrasion resistant.

Easy-to-clean effect - The coating actively repels contaminants so there is significantly less cleaning required. What cleaning that is required can be done easily using a wet cloth.

Corrosion and Rust Protection - The coating Protects metal from weather corrosion and rust, even in harsh marine and coastal environments