

Wheels

Technical Data Sheet

1 Description

Nanoman Wheels is a nanotechnology enabled coating that will protect wheels and rims against dirt, road pollution and brake dust keeping them looking like new.

It forms a tough ultra thin, invisible barrier on the metal components of the wheel providing excellent protection against brake dust and its corrosive effects. Brake dust not only looks unsightly on wheels but can actually damage and pit the metal surface if they are not regularly cleaned. Brake dust and other damaging contaminants can now be easily cleaned and wiped off with a damp cloth eliminating the need for scrubbing and the use of chemical cleaners.

After treatment with Nanoman Wheels the wheel becomes hydrophobic and anti stick. Water simply beads off the coated surface taking any loose materials with it and cleaning becomes super quick and easy.

Designed to last for 2+ years, the coating is UV resistant, anti-corrosive and highly abrasion resistant.

2 Features and Benefits

- Keep wheels and rims looking like new for longer.
- Makes the cleaning of alloy and chrome rims significantly quicker and easier.
- Dirt can simply be removed with a damp cloth.
- A single coat will last over two years
- 100ml bottle will cover at least 8 wheels
- No visual change to the surface
- Reduces brake dust and dirt particle adhesion
- Protection against weathering and corrosion
- Simplifies the cleaning of alloy and chrome rims
- Brake dust can be removed easily and does not burn in or stain
- Saves time and money on cleaning agents
- Dirt can simply be removed with a damp cloth
- Easy to apply and use
- Does not affect rubber components.
- 100% UV stable

3 Application

- Car wheels
- Trailer wheels
- Truck wheels
- Motorbike wheels
- Alloy and metal wheels and rims



4 Surface Preparation

The most important step in the application process is preparing the wheels. To ensure the sealants maximum performance the wheel must be completely clean, dry and free of all grease, dirt, brake dust, oils, scale residue and other contaminants prior to application.

We recommend the use of Nanoman Pre Cleaner to remove brake dust, grease, dirt and other staining. However if the surface is particularly stained, a stronger cleaner may be required prior to the use of the pre-cleaner.

Nanoman Pre Cleaner should be used as a final step to rid the wheel of any residues and will also evaporate any moisture from the surface to ensure it is completely dry prior to application. Do not use abrasive cloths to clean stainless steel or polished wheels as this may result in damage or scaring to the surface.

To ensure maximum performance, it is important that the surface is completely clean, dry and free from dust and grease prior to application.

5 Directions for Use

Ensure surface has been prepared properly and is clean and dry. We recommend using Nanoman Pre-Cleaner to properly prepare the wheels prior to applying the Nanoman Wheel. Ensure the temperature is between 5°C and 35°C with 90% relative humidity or less. When applying outside, avoid windy conditions if possible and do not apply in wet conditions or when there is a likelihood of rain.

Shake the container before use and re-shake every 15-20 minutes to ensure the nano particles are fully suspended.

Apply the coating via spray to the wheel surface. Then, using a lint free clean cloth, wipe into the wheel using circular motions to ensure total coverage of the surface. Use a cotton bud or similar to access tight and restricted areas, eg around wheel nuts. Repeat this covering a small area at a time until the entire wheel is evenly covered.

The surface should be allowed to dry for up to one hour (longer if in high humidity). Buff out any slight hazing out using a clean lint free micro fibre cloth. If there is any residues remaining it indicates more coating than necessary was applied and this can be removed by a being wiped down or polished (using the pre-cleaner) to remove residue

Nanoman Metal is available in DIY coating kits and is designed for use by both consumers and professional metal cleaners and manufacturers. You don't need to be an expert to apply the products. Comes with simple to follow instructions and it is quick and easy to apply.

Use sparingly – a small amount goes a long way. You only require about 8-12ml per wheel.

Specific application instructions:

- The wearing of gloves is recommended.
- Prepare surface with Nanoman Pre Cleaner to ensure it's clean, free of dirt and brake dust.



- Shake bottle before applying to a clean and dry surface.
- Avoid application in direct sunlight or to hot wheels.
- Working in small areas from top to bottom spray the surface and using a clean lint free cloth rub in thoroughly in circular motions. Repeat until the entire wheel has been treated.
- Avoid applying too much coating. The recommended usage rate is 10ml/M2.
- Allow to dry/cure 60mins.
- Ensure surface stays dry and untouched during this hour.
- After drying, lightly buff the surface with a clean microfibre cloth to remove any residues.
- Protective coating will reach its optimal performance after 24hrs. Keep dry (if possible) during this period.

Cautions

- Do not use if air or surface temperature is below 40°F / 5°C or above 95°F / 35°C.
- Do not apply to external surfaces in rain or when rain is expected within 12-24 hours.
- DO NOT THIN. Shake contents thoroughly prior to use.
- For best results, apply in the shade and out of direct sunlight.
- Do not use with other waterproofing products.
- Apply in a dust-free environment to avoid surface contamination.

Working Conditions:

- The wearing of protective gloves/protective clothing/eye protection/face protection is recommended when using this product. Final choice of personal protective equipment will depend upon individual circumstances and/or according to risk assessments undertaken.
- Consult SDS for proper handling, clean-up, disposal, and use of personal protective equipment.
- Please ensure the area being treated is well ventilated.
- Avoid breathing in spray.
- Store in a sealed container and keep away from children.
- Clean equipment immediately after using.
- Protection of adjacent porous areas from overspray and runoff is recommended but not necessary for non-porous surfaces.
- Ensure any overspray be wiped off adjacent with a dry cloth as soon as possible to avoid crystallisation.

6 Coverage

Nanoman Wheels should be used sparingly as only 8-12ml per M2 is required.

Due to the strong bond with the surface, Nanoman Wheels has a life span of 2+ years in ideal conditions and when applied to wheels surfaces in good condition. If used on older wheels or in an environment that produces a lot of friction against the wheels i.e. continuous off road use or driving in sandy conditions, its life span will be shortened. However, to maintain maximum performance we recommend monitoring the surface performance and a reapplication as necessary. To re-apply, simply follow the steps as set out previously in this document.



Surfactants in cleaning agents and strong consistent mechanical abrasion will affect the coatings life. If the performance of the coating starts to deteriorate, another application coating should be applied.

7 Cure Time

Nanoman Wheels 30 – 60 minutes to cure during which time the surface should remain completely dry and untouched. In more humid conditions, curing time will be longer. After curing, the coated surface should be polished or wiped down with a soft cloth and if necessary use Nanoman Pre Cleaner to remove any remaining silans or residue. The surface will be at its most effective after 24 hours and should be kept dry in this time if possible.

8 Physical Properties

Look:	Transparent liquid
Base:	SiO ₂ •
Solvent:	Ethanol
Rel. Density:	at 20°C: 0.822 kg/l •
Flashpoint:	11°C •
Active Agent:	0.5 Gew. %
Thinning:	Ready to use
Handling:	Refer to SDS
Application:	8-12 ml/sqm (dependent on surface/application)

9 Packaging

Nanoman Wheels is available in the following pack sizes:

- 125ml, 250ml, with appropriate application sprayers
- 1L, 2L, 5L, 20L

10 Shelf Life and Storage

- Store in its sealed container and keep away from children.
- Unopened original containers can be stored for up to 12 months.
- Used/opened containers can be stored for approximately 6 months.
- Recommended storage and transport temperature: +5 to +25°C.
- Store out of direct sunlight and in a dry environment.

11 Safety Instructions

The instructions on the Nanoman Wheels Data Sheet must always be followed.

- The wearing of gloves is recommended.
- Please ensure the area being treated is well ventilated.
- Avoid breathing fume/gas/mist/ vapours/spray.
- Store in a sealed container and keep away from children.



- In the event of eye contact, wash out immediately with cold water. Seek medical advice if necessary.
- Do not swallow.
- Avoid applying in windy conditions.
- Wash hands after application
- Highly flammable, do not store in hot conditions or apply to hot surfaces.
- Keep ignition sources away – Do not smoke
- Keep out of reach of children.

** This product contains ethanol and so appropriate care should be taken when transporting. Please refer to product SDS for further details on handling and transporting.

12 Surface Maintenance / Cleaning

With Nanoman Wheels applied, there is no need to use expensive and environmentally unfriendly cleaners and detergents. To maintain the hydrophobic effect, simply wash with fresh water and wipe down using a soft cloth. It is recommended that you occasionally use Nanoman Pre Cleaner or a mild detergent to wipe down the treated surfaces to keep surfaces looking their best.

In off road use in extreme conditions, we recommend a rinse and wipe down after each use. For best results, use a damp cloth to remove contaminants.

The need to use harsh cleaners or toxic chemicals is no longer necessary to maintain the pristine appearance of your treated surface. When cleaning your treated surface you must not use aggressive (especially highly alkaline chemicals such as bleach) or abrasive cleaners.

Do not use paper towels or abrasive cloths that are likely to scratch the surface.

13 Disclaimer

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. Users should satisfy themselves that it is suitable for their needs. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. As we cannot control or anticipate the conditions under which this product may be used, each user should review the information in specific context of the planned use. To the maximum extent permitted by law, Nanotech Products Pty Ltd will not be responsible for damages of any nature resulting from the use or reliance upon the information contained in this data sheet. No express or implied warranties are given other than those implied mandatory by law.

Users should always refer to the most recent issue of the Technical Data Sheet available from www.nanoman.com.au

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