

Ceramic 9H

Technical Data Sheet

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THE SCIENCE of PROTECTION

1 Description

Introducing Nanoman Ceramic 9H – Your Car's Ultimate Defence

Revolutionize your car care routine with Nanoman Ceramic 9H, a cutting-edge nano coating designed exclusively for skilled automotive detailers. Engineered with the latest SiO₂ nano ceramic particles, our premium formula creates a formidable shield against the harsh conditions your vehicle's paint faces. Watch as the nano particles self-organize, forming an invisible, long-lasting, high-sheen barrier that offers exceptional protection and effortless maintenance against all environmental challenges.

Our polysilazane-based 9H ceramic coating outshines the competition, redefining automotive surface protection. Leveraging advanced polysilazane technology, our formulation establishes an exceptionally hard and resilient matrix, providing unparalleled scratch resistance. Unlike conventional coatings, our unique chemical composition forms a cross-linked network, creating an impenetrable barrier against environmental threats. Experience genuine 9H hardness for long-lasting, superior protection against UV rays, contaminants, and harsh weather.

In a market flooded with 9H claims, Nanoman Ceramic 9H stands out as the epitome of performance, offering customers a proven and unmatched level of protection. Unlike waxes or polymer sealants that merely sit on the paint, our revolutionary coating molecularly bonds to the paintwork, suitable for any type of paint. Its water-repelling, anti-stick properties ensure cars stay cleaner for longer, making cleaning quicker and easier without the need for costly chemical cleaners.

Experience the ease of maintenance as Nanoman Ceramic 9H repels liquids and particles of contamination such as dirt, grease, oil, brake dust, and more. Say goodbye to the hassle of stubborn residues – dust, oil, and dirt can be effortlessly removed with just water and a microfiber cloth, saving you time and cost. Enjoy up to 5 years of enhanced protection, keeping your car's paintwork looking like new.

Nanoman Ceramic 9H is only a few nanometres thin and cannot be seen with the naked eye. It leaves surrounding non-metal surfaces unharmed. For comprehensive protection, we recommend using it in conjunction with the full range of Nanoman automotive products.

When it comes to adding gloss, resisting swirls, and repelling contaminants and dirt, Nanoman Ceramic 9H stands as the pinnacle in paint protection. Elevate your car's appearance and safeguard its beauty with the unrivalled performance of Nanoman Ceramic 9H – where innovation meets excellence protection.

2 Features and Benefits

- Ultra-hydrophobic; water will shed easily and quickly with tight beading.
- Long term protection, preserving that just detailed appearance for years to come, maintaining the vehicle's overall value.
- Durable Swirl Resistance that offers robust protection against wash-induced swirls and scratches.
- Slick, Contaminant-Resistant Finish that creates a barrier that repels dirt and contaminants, making cleaning your car easier and more effective.
- Suitable for cars, trucks, boats, caravans, campervans, and motorbikes.
- Strong non-stick properties. Dirt, dust, bird droppings and insect remains are easily removed

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without leaving a permanent mark.

- Long lasting protective coating that provides high gloss finish
- Enhanced Stain Protection that guards against staining from industrial pollutants and environmental fallout, preserving your car's pristine look.
- Invisible to the human eye. Coating thickness: 50 - 60 nm, less than 1 micron, totally transparent.
- UV protection and abrasion resistant, incomparable to traditional wax.

3 Applications

Nanoman Ceramic 9H is a premium professional use ceramic coating. Ideal for car or truck fleet owners, car / boat / caravan detailers, car dealers, professional car wash providers and panel shops who want to provide their clients with a superior service or upgrade service.

Suitable for:

- Cars
- Boats
- Motor Bikes
- Jet Skis
- Public Transport (Buses / Trains)
- Emergency Service Vehicles
- Aircraft
- Caravans

4 Surface Preparation

For the best results, the surface must be prepared meticulously. All surfaces must be thoroughly washed, and decontaminated. Any defects existing in the paintwork will be 'locked in' by the coating, therefore you will want to undergo paint correction where necessary to ensure your car will look its best when protected.

Even when applying Nanoman Ceramic 9H to a new car do not skip the prep stage. Even on new cars there are bits of stuck on dirt, dust, glue, and other contaminants.

4.1 Wash and Clean

The first step is to thoroughly wash the car with a car cleaning shampoo. This will leave soap residue and other material on the paint, so it is necessary to rinse off the car with just water then dry with a clean microfibre cloth for a streak-free finish. This will help show up any imperfections in the paintwork, which will need to be removed.

4.2 Decontamination

After washing check the paint for stubborn marks. It is recommended a clay bar or clay mitt used with appropriate lubricant should be used to remove stuck on contaminants.

4.3 Polish / Paint Correction



Before applying Nanoman Ceramic 9H it is essential to ensure that the paintwork is clean, smooth and clear and free of marks. Nanoman Ceramic 9H forms a strong bond with the surface and will seal in any kind of contaminants or imperfections present. A light polish with a finishing compound may be all that's needed, but for obvious swirl marks and scratches machine polishing and a compound may be needed.

4.4 IPA wipe

To remove any final contaminants or residual polishing material, spray isopropyl alcohol on the car's surface and clean it with a good quality microfibre cloth or towel afterwards. This step will ensure a perfect bonding between the ceramic coating and the car's paintwork.

5 Directions for Use

Nanoman Ceramic 9H is supplied ready-to-use.

- 5.1 Ensure paintwork is clean, and free of any contaminants, previous coatings and prepared in accordance with the surface preparation instructions.
- 5.2 It is best to apply Nanoman Ceramic 9H in a shaded, well-ventilated and well lit area.
- 5.3 Wear gloves - stops sweat and oil.
- 5.4 Shake the bottle well, then apply just a few drops of Nanoman Ceramic 9H to your applicator.
- 5.5 Apply several drops of Nanoman Ceramic 9H to the applicator pad. It is recommended to use an applicator block and micro suede cloth matched to the applicator block.
- 5.6 At the beginning of the application, pour Nanoman Ceramic 9H onto the applicator evenly until it absorbs. NEVER pour the product directly onto the car body.
- 5.7 Wipe it on a small area of approx. 1 M². Go horizontally, slightly overlapping and then vertically (cross-hatch pattern) to ensure an even application. You'll feel it applying properly if the applicator glides smoothly. If it's dragging, use a few more drops. If the amount on the applicator is not enough, it will be difficult to move the applicator and cause streaks.
- 5.8 After applying the coating, allow it to dry for 20 to 30 seconds and then, using a clean, dry microfiber cloth (over 340 gsm), gently wipe the treated area in a circular motion, applying minimal pressure to remove any residue from the paint. Before proceeding, inspect your work using a work light or flashlight.
- 5.9 Repeat this process over the entire vehicle. Repeat this process until the rest of your vehicle has been coated once.
- 5.10 It might look and feel like the ceramic coating is dry, but it hasn't fully cured yet. You should protect it from getting wet for at least 120 hours after you wrap up the job. The ceramic coating will continue to harden for seven days or so. The car may be driven after 2 days, but cannot come into contact with water. It will not be affected by sun or dust in this time, in fact the sun will speed up the curing process.



5.11 One coat provides brilliant protection and a mirror-like finish for a long time.

6 Coverage

The average coverage rate is 1mL of Nanoman Ceramic 9H for an area of 30cm x 30 cm.

Effectively 30mL of product is sufficient for a single layer application on a medium sedan.

7 Cure Time

Touch dry: 1 hour.

Completely dry: 4-5 hours.

- Do allow coated surface to get wet for 120 hours
- Do not drive car for 48 hours
- Do not wash for 7 days after coating is installed to allow curing.
- The coating is fully cured after 5–7 days at room temperature.

8 Physical Characteristics

- Appearance: colourless to pale yellow liquid
- Density: ca. 0.92 g/cm³
- Binder base: Organic polysilazane
- Solvent base: n-butyl acetate
- Flash point: < 21 °C

9 Packaging

Nanoman Ceramic 9H is available in the following pack sizes.

- 250ml
- 1 Litre

10 Shelf Life and Storage

Nanoman Ceramic 9H is sensitive to moisture contamination. It is very important to quickly close the container immediately after opening. Do not leave the container cap open for extended periods, which will allow solvents to evaporate and crosslinking to begin.

Shelf Life:

- 12 months from delivery date, at 20 °C
- Storage temperatures must be dry and between 4°C and 22°C. Higher temps will decrease shelf-life.
- Shelf life opened: 6 months
- Container must be closed immediately after use to avoid moisture contamination.
- Do not leave container open for extended periods to avoid moisture contamination.



11 Safety Instructions

The instructions on the Safety Data Sheet must always be followed.

Consult SDS for proper handling, clean-up, disposal, and use of personal protective equipment. Circulate sufficient air to maintain working environment below the PEL and LEL. Apply according to local, state, and federal (OSHA) regulations.

It is important to use Nanoman Ceramic 9H in a dust-free environment to avoid surface contamination. Appropriate ventilation, and protective gloves are required to apply the coating and for handling application pads and cloths.

- The wearing of gloves is recommended.
- Ensure the area being treated is well ventilated.
- Do not apply or store in direct sunlight.
- Store in a sealed container and keep away from children
- In the event of eye contact, wash out immediately with water.
- Do not swallow. Seek medical advice if necessary.

12 Surface Maintenance

Ceramic Coatings can last varying amounts of time depending on many scenarios. The most important thing do to get the most from the coating is regularly maintain it.

Here's what you need to do:

- Hand wash vehicle with proper technique every 2-3 weeks at minimum, or whenever necessary.
- Do not use automatic, touchless or roller brush type car washes. These will scratch your paint, even if they say touchless.
- It is recommended to use Nanoman Car polish + Seal every 12 months to maintain the Nanoman Ceramic 9H's longevity.
- Don't let water dry on the surface of the paint after washing. This can leave hard water spots which can be hard to remove.
- Always thoroughly dry the car with a blower or microfibre towel, and work out of direct sunlight when washing
- Do not use paper towels or abrasive cloths to clean the car as that may 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 implies mandatory by law.



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