

NanoQuinn Shine & Water Repellent for Metal Surfaces

Technical Data Sheet

1 Description

NanoQuinn Metal: Shine & Water Repellent Surfaces has been specifically engineered with the latest in SiO₂ nano ceramic particles for the harsh conditions metal surfaces has to endure. After application the nano particles self-organise and bond with the metal surface forming an invisible long lasting, high sheen, barrier against dirt and grime and anything the environment can throw up against it.

Its water repelling, anti-stick properties and easy-to-clean effect means the metal surface will stay cleaner for longer. Cleaning becomes quicker and easier without the need for costly chemical cleaners and shampoos. **NanoQuinn Metal:** Shine & Water Repellent Surfaces effectively repels liquids and particles of contamination such as dirt, grease, oil, brake dust and other materials that would otherwise adhere to the metal surfaces.

Dust, oil and dirt can be removed easily, usually with just water and a micro fibre cloth and in a fraction of the time and cost it had previously taken. The metallic surfaces will be better protected and looking like new after just a single application

The nano coating is only a few nanometres thin and cannot be seen with the naked eye. It does not harm or effect surrounding non-metal surfaces.

NanoQuinn Metal: Shine & Water Repellent Surfaces is easy to apply and durable, giving any metal surface 10 to 12 months' protection (exterior surfaces) and 3 years' protection (interior metal surfaces) after just a single application.

2 Features and Benefits

- Strong water repellency
- Latest SiO₂ nano ceramic technology
- Strong non-stick properties
- Dirt, dust and dried on insect remains will not gain purchase on the metal surfaces
- Excellent easy-clean effect
- Easy to apply, single coat application.
- Invisible to the human eye (coating thickness: 50 - 60 nm) / totally transparent
- UV and abrasion resistant
- Simple application (do-it-yourself)
- Long lasting protective coating that provides a high gloss finish.
- Protects paint from bird droppings, acid rain, road salt and bug residue.
- Eliminates the need for chemical cleaners.
- Suitable for caravans, campervans and motorbikes.

3 Application

NanoQuinn Metal: Shine & Water Repellent Surfaces is great for enthusiasts and those who just want to maintain the look and value of any type of metal surfaces.

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- Cars
- Boats
- Motor Bikes
- Jet Skis
- Public Transport (Buses / Trains)
- Emergency Service Vehicles
- Air Craft
- Caravans
- And all other types of metal surfaces

4 Surface Preparation

The most important step in the application is actually preparing the metals surface. It 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 the Bio-Intensive Organic Cleaner to remove any kind of stains and for effective cleaning. Do not use an abrasive cloth to clean the metal as this may result in scratches to the metal surface.

5 Directions for Use

Ensure surface has been prepared properly and is clean and dry. We recommend applying and polishing the nano coating into the metal surface manually by hand using an application pad. Slow rotation mechanical buffers can be used, but should only be used by experienced users.

NanoQuinn Metal: Shine & Water Repellent Surfaces is available in DIY coating kits, and stand-alone bottles. You don't need to be an expert to use or apply **NanoQuinn Metal:** Shine & Water Repellent Surfaces Comes with simple to follow instructions and it is quick and easy to apply.

Specific application instructions:

- The wearing of gloves is recommended.
- Wash the metal surface to prepare the surface and ensure it is dry, clean and free of any dirt or marks. We recommend the use of the Bio-Intensive Organic Cleaner to remove any kind of stains and for effective cleaning.
- Shake bottle before applying to a clean and dry surface.
- Avoid application in direct sunlight or to hot surfaces.
- Apply 3 or 4 drops of the nano polish to an application pad and using circular motions rub into the painted surfaces in small sections.
- Usage should be no more than 12 to 18 drops to cover the metal surface.
- Avoid applying too much coating. The usage rate should be no more than 10ml/M².
- A slow rotation polisher may be used if desired
- After 10-15mins remove the white residue with a microfibre cloth.
- Give the metal surface a final buff with clean microfibre cloth for the ultimate shine.

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- Keep dry for at least 1 hour with polish fully cured after 24 hours.

Cautions

- Do not use if air or surface temperature is below 40°F / 5°C or above 95°F / 35°C.
- DO NOT THIN. Shake contents thoroughly prior to use.
- For best results, apply in the shade and out of direct sunlight.
- Avoid using high speed polishers and/or abrasive cloths.
- Do not use with other polishing products.
- Apply in a dust-free environment.

Working Conditions:

- The wearing of protective gloves is recommended when using this product.
- Consult SDS for proper handling, clean-up, disposal, and use of personal protective equipment.
- Store in a sealed container and keep away from children.
- Clean equipment immediately after using.

6 Coverage

A small amount goes a long way. The metal surface requires no more than 8-10 drops. 1 litre covers approx. 700 sq. ft. per medium sized metal surface.

7 Cure Time

The surface should be kept dry for 60 minutes after application although it is water resistant immediately. It will reach its optimal performance after 24 hours and should be kept dry during this period if possible.

8 Physical Properties

Form:	Liquid
Appearance:	White
Odour:	nearly odourless
Base	SiO ₂ Silica Quartz
Boiling Point:	>100°C
Flash Point:	not applicable
Density:	1.0 +/- 0.03 g/cm ³ at 20 °C
pH (500 g/l H ₂ O):	3.0 – 5.0 (50% in water)

9 Shelf Life and Storage

- Unopened original containers can be stored for up to 2 years.
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- Used / open containers can be stored for up to 12 months.
- Recommended storage and transport temperature: +5 to +25°C
- Store out of direct sunlight and in a dry environment, away from children.

10 Safety Instructions

The instructions on the **NanoQuinn Metal: Shine & Water Repellent Surfaces** Safety Data Sheet must always be followed.

- 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.

11 Surface Maintenance

Once **NanoQuinn Metal: Shine & Water Repellent Surfaces** has been applied surfaces will remain cleaner for longer. They will still require the occasional cleaning, however there is no need to use expensive and environmentally unfriendly cleaners and detergents.

To remove, stubborn dirt and grime and to maintain the hydrophobic effect, simply wipe down the surface with water and a damp cloth. The occasional use of warm water and a non-aggressive cleaner to thoroughly clean the metal surfaces is still required to maintain the metal surfaces best look.

Do not use paper towels or abrasive cloths to clean the metal surface as that may scratch the surface

12 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 the specific context of the planned use. To the maximum extent permitted by law, **Quinn Innovations** 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.

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