

Car Fabric + Textile

Technical Data Sheet

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THE SCIENCE of PROTECTION

1 Description

Nanoman Car Fabric + Textile protects automotive fabrics and textiles against water, dirt and stains, whilst remaining totally invisible. It will not affect the materials appearance, its ability to breathe, its colour or feel.

Nanoman Car Fabric + Textile surrounds every fibre with a matrix network of nanoparticles that are extremely hydrophobic and oleophobic; that is they repel both liquids and contaminants. Liquid spills will either run off or sit on top of the surface and can be easily shaken off or soaked up using a paper towel or similar. The liquids will not soak into the material, eliminating any potential staining.

After application Nanoman Car Fabric + Textile bonds with every fibre with of the material and as a result, dirt cannot adhere to the material and liquid cannot be absorbed into the fabric. Rain, water, and liquid substances are repelled from the fabric.

The durability of Nanoman Car Fabric + Textile depends on several factors, but for car seat it is largely dependent on use which causes abrasion to the protected surface. The coating itself will not breakdown, but the fibres of the material will open up over time. A single treatment of Nanoman Car Fabric + Textile will remain effective for up to 12 months, longer on seats with minimal use.

It can be used on car seats, car mats and soft tops and is effective on almost any fabric including suede, leather and carpets.

2 Features and Benefits

- Long lasting protection for a wide range of car fabric and textiles including cotton, leather, suede, polyester and wool.
- Repels liquids and minimizes stains.
- Quick and easy to apply
- Odour free.
- Maintains the look, feel and characteristics of the material
- Prevents stains, even on leather and vinyl.
- Totally invisible
- UV-stable (i.e. will help prevent discolouration due to sunlight)
- Water based and harmless to your skin.
- OEKO-TEX Eco Passport Certification (17.0.21629 Hohenstein HTTI)
- Can be used on internal and external surfaces.

3 Application

- Automotive fabrics and textiles, including leather and vinyl
- Car seats and public transport seating
- Convertible car roofs
- Baby seats
- Child booster seats

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4 Surface Preparation

Ensure that surface to be coated is clean, dry and free of any other coatings including cleaning agents prior to application.

Vacuum and clean the fabric or surface to be coated to ensure loose dirt and fibres are removed, prior to applying Nanoman Car Fabric + Textile.

5 Directions for Use

Ensure surface has been prepared properly and is clean and dry.

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

Simply spray on Nanoman Car Fabric + Textile from a distance of about 15cm to the fabric to fully dampen but not saturate the fabric / material. If applying to leather, use a soft clean cloth to rub in the coating and do not let it pool. When applying to car seats or convertible roofs, we recommend agitating the coating in with a soft bristle brush to ensure all the fibres of material are covered.

For application on carpet we recommend a wet-on-wet application (i.e. two coating) with some gentle agitation (soft bristle brush or rubber blade) to work the coating into the carpet strands between each spray.

The surface is usually touch dry in 2 hours but be allowed to dry for 24 hours before use (longer if in high humidity).

Nanoman Car Fabric + Textile is available in ready to use spray bottles and is designed for use by both consumers and professional cleaners and manufacturers. You don't need to be an expert to apply the products. For large scale applications we recommend the use of HVLP spray equipment.

Specific application instructions:

- Ensure the surface is dry, clean, free of any dirt, loose fibres and has not been treated with any other coating. Remove all pre-existing coatings and marks prior to application.
- Shake bottle prior to application.
- Spray on evenly over the fabric at a distance of approx. 6 inches (15cm) until the entire surface is damp. If protecting leather use a soft cloth to rub in evenly. If applying to furniture or clothes brush in the coating with a soft bristle brush.
- Let it dry/cure for 24 hours and it is ready for use.
- Amount to be applied depends on absorbency of fabric. (Avg. 60 to 80ml M2). Apply one coat only (except if treating carpet).

Cautions

- 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.
- Do not use with other waterproofing products.
- Apply in a dust-free environment to avoid surface contamination.



- After application do not scrub or allow spills to remain on the coated surface. Remove spills with a paper towel or damp cloth. To remove marks dab fabric with a damp cloth

Working Conditions:

- The wearing of protective gloves/protective clothing/eye protection/face protection is recommended when using this product for large scale applications or when using HVLP spray equipment.. 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.
- 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.

6 Coverage

Consumption will vary depending upon on the absorbance of the material, however expected usage is between 60 and 80ml/M²

Some highly absorbent fabric may require 100ml/M²

Carpet is usually highly absorbent and each application will require 80 – 100ml per M2 so wet on wet application will require 160-200ml/M²

The durability of the coating is dependent on several factors including, the type of material or item that it is applied to, its use and the mechanical stress applied to the surface. Assuming average use and cleaning Nanoman Car Fabric + Textile should provide protection of car seats for 6-12 months. Convertible roofs and car carpet (dependent on use) is on average 12 months.

If the performance of the coating starts to deteriorate, another application coating should be applied to re-establish full protection. This will not damage the material in any way.

7 Cure Time

Touch dry in 60 min, however for best results allow coated material to dry for 24 hours.

8 Physical Properties

Colour:	Colourless to light yellow
Flash Point:	None
pH:	6-7
Solvent:	Water
Specific gravity:	1.002-1.006
Odour:	Odourless
VOC Content:	Below detectible limit



Boiling Point: >97 °C

9 Packaging

Nanoman Car Fabric + Textile is available in the following sizes:

- 250ml, 750ml
- 2L, 5L, 20L.

10 Shelf Life and Storage

- Unopened original containers can be stored for at least 2 years in cool conditions.
- Opened containers can be stored for up to 12 months in cool conditions.

11 Safety Instructions

The instructions on the Nanoman Car Fabric + Textile Safety Data Sheet must always be followed.

- 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. Seek medical advice if necessary.
- Recommended storage and transport temperature: +3 to +30oC
- For spills DO NOT scrub the fabric, soak up the spill with a paper towel and damp cloth / sponge.
- The wearing of gloves is optional but recommended.
- Please ensure the area being treated is well ventilated.
- When applying outside avoid applying in windy conditions.

12 Surface Maintenance

With Nanoman Car Fabric + Textile, there is no need for additional cleaning or maintenance. Coated surfaces become strongly hydrophobic repelling both water and contaminants. Liquid spills will either run off or sit on top of the surface and can easily be soaked up using a paper towel or similar. To completely remove marks, gently dab with a damp cloth.

Do not scrub or allow spills to remain on the coated surface. Remove spills with a paper towel or damp cloth. To remove marks dab fabric with a damp cloth. Do not rub or scrub fabric.

Do not attempt to physically rub liquids into the fabric to test the coating, there is heightened probability of damage and staining which may occur. It is important to understand that Nanoman Car Fabric + Textile is aimed at protecting against everyday accidental spills and general wear and tear due to accidental liquid spillages.



13 Disclaimer

The information, particularly the recommendations relating to the application and end-use of the products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions.

The above information is only offered, as a guide to the use of this product. Users should satisfy themselves that it is suitable for their needs. Since we have no control over the conditions under which it is used, we cannot accept and liability or responsibility for problems caused by the use and/or application of this product.

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

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