

Shoes + Bags

Technical Data Sheet

NmTM
Nanoman

THE SCIENCE of PROTECTION

1 Description

Nanoman Shoe + Bag is an innovative fibre protection product that protects almost all types of fabrics used on shoes and bags against water, dirt and stains. It is totally invisible and does not affect their appearance, or their ability to breathe or their feel.

It can be used on suede, leather and nubuck as well as wool, cotton, synthetics and silk.

Nanoman Shoe + Bag surrounds every fibre of the coated surface with a matrix networked of nanoparticles that are extremely hydrophobic; that is, they repel liquids. Liquid spills will either run off or sit on top of the fabric 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.

The durability of Nanoman Shoe + Bag depends on several factors, such as the frequency of use and wear, cleaning and mechanical abrasion. In ideal conditions a single treatment could last up to two years. Assuming "average" use and cleaning we provide the following as a guide.

2 Features and Benefits

- Long lasting protection for a wide variety of shoes and bags.
- Maintains the look, feel and characteristics of shoes and bags.
- Repel liquids and minimises stains.
- Totally invisible.
- UV-stable (i.e. will help prevent discolouration due to sunlight).
- Non allergenic.
- Environmentally friendly.

3 Application

All types of shoes and bags, including leather and suede.

4 Surface Preparation

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

5 Directions for Use

Ensure surface has been prepared properly and is clean and dry

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

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Simply spray on Nanoman Shoe + Bag from a distance of about 15cm to the item 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

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 Shoe + Bag is available in ready to use spray bottles and is designed for use by both consumers and manufacturers. You don't need to be an expert to apply the products.

Specific application instructions:

- Ensure shoes or bag are dry, clean, free of any dirt, loose fibres and have not been treated with any other coating.
- Shake bottle prior to application.
- Spray on evenly over the shoes or bag 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.
- For best results and when applying to suede it is recommended the coating be brushed into the shoe.
- 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).
- 30ml of Nanoman is usually sufficient for a pair of shoes. Boots and large footwear may require up to 60ml.

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.

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

A bottle of Nanoman Shoes + Bags will coat approximately 3 pairs of shoes. (depending on the size of each item).

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 Shoes + Bags is available in the following sizes:

- 100ml with ready use micro mist sprayer

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.
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11 Surface Maintenance

With Nanoman Shoe + Bag, 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.

Items such as clothing that are washed regularly will remain washing agent resistant for up to 10 washes or 6 months (depending on material) before a reapplication may be required.

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 Fabric + Textile is



aimed at protecting against everyday accidental spills and general wear and tear due to accidental liquid spillages.

12 Safety Instructions

The instructions on the Nanoman Shoes + Bags 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.

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.

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

