

# TECHNICAL DATA SHEET

## NANOSKIN TEXTILE

### Description

Water repellent coating for textile.

### Function

To make natural and synthetic fabrics water and oil repellent.

### Main characteristics

- Easy application with spray
- Strong durability
- Environmentally friendly
- Breathable
- Optically neutral
- Curing at room temperature
- No VOC
- UV stable

### Colour and shine

Completely transparent and colourless.

### Basics

- Base: SiO<sub>2</sub>
- Solvent: water
- Rel. Density at 20°C: ca 1,002 kg/l
- Appearance 20°C: Liquid
- Viscosity 20°C: 1 mPa.s
- Curing time: 24h\*
- Flashpoint: does not apply
- PH: 7,5

\* 24h is a time indication for drying at room temperature. Low temperatures and high relative humidity slow down the drying process. For industrial applications, the process can be accelerated. This can be done by using ventilation and/or heating elements such as infrared (50-80°C). Depending on factors, such as absorption by the substrate, drying time can be reduced to a few minutes. The material can then be packed. The coating must be cured for 24 hours before it can come into contact with water.

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## Application

Nanoskin Textile is designed to turn all kinds of fabrics water and oil repellent. This coating offers not only protection against water, but also against oily products like ketchup, red wine, etc.

## Efficiency

### Theory:

10-14 m<sup>2</sup> per litre

### Practice:

The practical consumption depends on certain factors such as the grade of absorption of the substrate, condition and profile of the surface, method of application, experience and weather conditions.

## Surface conditions

Clean and dry. It is very important that the surface to be treated is dry and cleaned properly. Ideally the fabric should be cleansed a second time solely with water to clear the material from any soap residue.

## Application conditions

For optimal results, following conditions should be taken into consideration:

- Environmental temperature of 10-30°C
- Rel. Humidity maximum 85%
- Shake before use and do not dilute
- Application through spray (HVLP, 4bar, 0.7-1mm nozzle opening)\*\*
- Sufficient ventilation during application and curing
- The use of gloves is recommended

\*\* These values are recommended by Nanoskin. These are however dependant on the field of application, weather conditions and user experience.

## Application instructions

Clean the surface properly and allow enough time to dry. It is advised that the material is washed with only water to remove any residue of soap or detergents. Apply Nanoskin Textile with a HVLP-gun. For optimal results, treat the whole surface and distribute the product evenly. Allow to cure for at least 24 hours. During this time, do not use the surface or let it make contact with water.

Clean tools with demineralised water after use.

Please consult the Nanoskin Textile user's manual for more elaborate application instructions.

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Note: Nanoskin Textile is not suitable for the treatment of already water repellent fabrics. To ensure the effectiveness of the coating, we always recommend testing a small piece of material before treating the entire surface. In this way, any unwanted discolouration can be detected at an early stage.

## Security measures

See safety data sheet (MSDS).

## Preservability

Stored in sealed packaging in a dry and frost-free place (5-30°C) at least 24 months preservable.

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In case of intoxication, immediately contact the poison control centre on the number: +32 (0)70.245.245