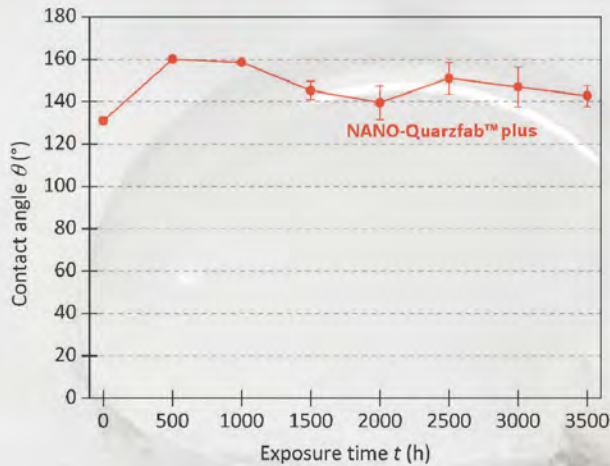




LABORATORY TEST

Mean value of the contact angle θ (°); Weathering with UV fluorescent lamps according to ISO 11507, method A

The contact angle θ was measured every 500 h within a period of 3500 h. A graphical representation of the result is shown below and a tabular listing can be found in appendix 1. The coating **NANO-Quarzfab™ plus** shows an increase in the contact angle θ from 131.0° to 142.8° after 3500 h weathering, which can be explained with a chemical post-crosslinking.



Representation of the contact angle θ in dependence on exposure time t for **NANO-Quarzfab™ plus**



Super-hydrophobic



Manufactured by Ceramic Nano-coatings



Distributed by:

NANO-coating for fabrics and textiles

NANO-Quarzfab™ - high quality NANO-coatings for fabrics and textiles.

Advanced **NANO-Quarzfab™** series nano-coatings protect a wide range of fabrics and materials from water, dirt, stains and contamination from most liquids while remaining completely invisible. These protection products do not affect the appearance, colour, breathability or handling of the fabrics and materials while at the same time are easy to maintain. CERAMIC NANO-coatings™ products are extremely water-resistant on outdoor fabrics keeping them drier longer. When the fabrics are treated with our CERAMIC NANO-coatings™ products, stains like oil, coffee, red wine etc. belong to the past.

EXAMPLES OF USE

- » Car interior protection for carpets and upholstery fabrics
- » Household fabrics such as upholstery, carpets, pillows, cushions, sheets etc.
- » Suede and leather
- » Convertible roof tops
- » Paper, cardboard
- » Clothing
- » Outdoor furniture

PRODUCT CHARACTERISTICS

- » Protects fibres from the infiltration of dirt
- » Super water and oil repellent properties
- » Food safe (does not react with food)
- » Strong non-stick properties

OTHER PROPERTIES

- » Invisible to the human eye (coating thickness: 100-150 nm)
- » Permanent (UV-stable, very resistant to abrasion)
- » No change to the fibre texture
- » No impact on the visual appearance and feel of the fabric
- » Breathable
- » Very simple do-it-yourself application
- » Washing and cleaning agent resistant
- » Temperature resistant (up to 450°C)

APPLICATION

Simple DIY (do-it-yourself) application makes it suitable for any customer:

- » DIY application at home or office on textiles – spraying or dipping
 - » Industrial application using HVLP systems.
- Once applied, the coating forms a complete network and completely sets after 24 hours. The easy-clean effect can be seen tested after the 24 hour setting period.

CONSUMPTION

DIY and Industrial application: between 25ml and 100ml for m², depending on absorbency and thickness of the material.

ABRASION RESISTANCE

The excellent chemical bonding with the fabric materials give outstanding abrasion and washing machine resistant properties – the coating adheres to the fibres until the fibres themselves are destroyed.

CHEMICAL STABILITY

The products are cleanser and solvent-resistant (up to pH value of 13).

WASHING AGENT STABILITY

The products are washing agent resistant. Tests have shown stability for an average of 30-40 washes for the entry level products, and 40-50 washes for the premium **NANO-Quarzfab™ plus** version. *Many competitive products must be reapplied after each washing of fabric.*

STORAGE STABILITY

Recommended storage and transport temperature is from +3°C to +30°C. Unopened original bottles can be stored for a minimum of 2 years.

PERMANENCE AND LONGEVITY

The products are UV-stable and enable full functionality for the lifetime of the coated surface. *Many competitive products are slowly degraded by sunlight.*



CERAMIC
Nano-coatings