



HIGH QUALITY NANOTECHNOLOGY COATINGS FOR ABSORBENT SURFACE LIKE TEXTILES, PAPER AND NATURAL WOOD (ALSO AVAILABLE AS AN ANTI-BACTERIAL COATING)

Ceracoat Group / Flawilerstrasse 31 / CH-9500 WIL / Switzerland
www.ceracoat.me / phone +41 71 288 17 17 / info@ceracoat.me



CERACOAT COATING FOR ABSORBENT SURFACE:

This innovative fibre protection-product, based on Nano-Technology protects almost any type of textile from water, dirt, contamination and stains - whilst remaining totally invisible!

It will not affect the appearance, its ability to breath, its color or handle and is easy to maintain

CERACOAT products are exceedingly water-resistant on outdoor materials; keeping them drier longer. Oil, coffee and other frequent stains belong to the past, if the material is treated with our protective products. Textile care is also available with anti-bacterial properties!

EXAMPLES OF USE:

- Clothing
- Household textiles (pillows, furniture, carpets, curtains)
- Suede / leather
- Paper, cardboard
- Natural wood

PRODUCT CHARACTERISTICS:

- Strong hydrophobic + oleo phobic properties (+ anti-bacterial properties)
- Strong non-stick properties
- Protection of fibers from the infiltration of dirt (and bacterias)
- Food safe (inert)



OTHER PROPERTIES:

- Invisible to the human eye (coating thickness: 100–150 nm)
- Permanent (UV-stable, very resistant to abrasion) – available as „anti-bacterial“
- No change on haptic of the fibre, breathable, free from silicone, wax & oil
- Simple application (do-it-yourself)
- Washing and cleaning agent resistance (45 wash cycles in average)

APPLICATION:

Simple do-it-yourself application makes it suitable for end-customers as well:

1. Manual: Application by wetting textiles (spraying or dipping) wood: spraying
2. Industrial: Application using the standard HVLP systems.

This NANO-coating is completely networked and hardened after 24 hours. The easy-to-clean effect can only be tested after this hardening period

STORAGE STABILITY:

Unopened original containers can be stored for at least 2 years. Recommended storage- and transport temperature: +3 to 30°C

CONSUMPTION:

Manual + Industrial: between 10 and 80 ml/m², depending on absorbency of the substrate.
An afforded quantity of $\varnothing 10 \text{ ml/m}^2$ per mm of material's thickness should be calculated.

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ADVANTAGES COMPARED TO COMPETITIVE PRODUCTS

Permanence and longevity:

The UV-stability enables functionality for a number of years, approximately the lifetime of the coated surface (wood) – available with „anti-bacterial-properties“

Many competitive products are slowly destroyed by sunlight and washing

Abrasion resistant, easy-to-clean effect

A solid chemical connection with the substrate enables an excellent abrasion and washing machine resistance – the coating adheres to the fibers until it is destroyed by external influences

Many competitive products are not washing machine resistant

Chemical stability – washing agent stability

The product is washing agent resistant

Many competitive products do not have this property and must be reapplied.

IMPORTANT NOTICE:

Our explanations correspond to our current knowledge and experience. The right to make alterations within the framework of technical advances and operational development is reserved. The customer is not released from careful product application. We guarantee the quality of our products in accordance with our general sales conditions as a matter of course. The products are ready-to-use. Mixing with other substances or other charges is strictly forbidden.

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TESTING RESULTS: (Contact angle always 139,5 ° & still active after 45 washes)



Test results Ceracoat "Textile Care" / absorbing surfaces

Forschungsinstitute Hohenstein

Excerpts from the report dated 22.11.2013

• Contact angle measurement:

	Contact angle at time index 1	Penetration time of the drop
Untreated new goods :	54,1° bei t = 0,08 s	1,3 s
Fabric equipped with Ceracoat "Textile Care"	139,5° at t = 1s	over 2 minutes

• Spray Test (water-repellent properties)

Sample	Note
Untreated Fabric (New Goods)	1
Fabric equipped with Ceracoat "Textile Care"	4

Note 1: Wetting of the entire sprayed surface ...

Note 4: No wetting and no adherence of small drops on the sprayed surface

- Review of the permanence of Ceracoat "Textile Care" equipment under household conditions (internal PR-no. 04.2.7595)

Result: permanence of the equipment is still present after 45 domestic washes

• Stain removal after washing:

Red wine - cooking oil - Salad Dressing

On the fabric treated with Ceracoat "Textile Care" the stain removal result of the above mentioned substances after 45 washes resulted the grade 2, salad dressing grade 1.

Note 1 = completely removed - Note 5 = very strong visible

Ostthüringische Materialprüfungs- GmbH für Textil und Kunststoffe

Oleophobietest:

Excerpt from the report dated 31.8.2013

Test Number: 3.5V/279/13

Result: Oleophobiegrad 7

The fabric has a very good oleophobic effect and shows a good beading to aqueous substances (eg black coffee).



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