

HIGH QUALITY NANOTECHNOLOGY COATINGS FOR TEXTILES – TO BE ADDED TO THE WASH MACHINE: Textile care 328

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#### 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.

CERACOAT textile care 328 (to be added to the wash machine) is a fabric waterproofing treatment for easy application in the wash machine. It forms an ultra-thin, transparent layer on cotton, polyester or mixed-fibre fabrics, providing the material with water- and dirt-repellent properties.

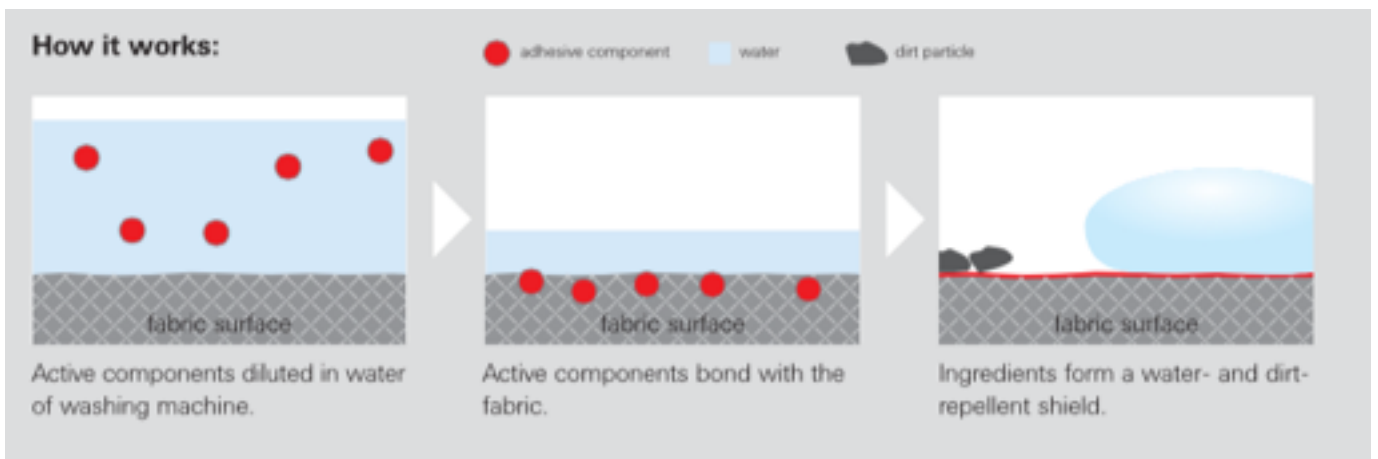
#### PRODUCT CHARACTERISTICS:

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



#### OTHER PROPERTIES:

- Invisible to the human eye (coating thickness: 100–150 nm)
- Permanent (UV-stable, very resistant to abrasion)
- No change on haptic of the fibre, breathable, free from silicone, wax & oil
- Simple application (do-it-yourself to be added to the wash machine)
- Washing and cleaning agent resistance



MAIN AREAS OF USE: Synthetic and mixed-fibre fabrics

INGREDIENTS: Concentrate with special additives and ceramic material

AVAILABLE QUANTITIES: Drums and 200 ml bottles for retailers / consumer product

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APPLICATION:	To waterproof up to 3 kg of clothes, simply add 100 ml of Ceracoat textile care 328 to the fabric conditioner compartment of your washing machine during the last program cycle. Thermal treatment (e.g. tumble-drying or ironing) enhances the waterproofing effect.
COVERAGE:	Approximately 100 ml for 2–3 items of clothing
CLEANING/MAINTENANCE OF TREATED SURFACES:	Clean with a damp cloth or wash as normal
DRYING:	IN tumble-dryer or by ironing (at low setting)
CERTIFICATIONS:	EU Marketing certificate
APPEARANCE:	Milky-white liquid
PH VALUE:	Undiluted: 3–4
STORAGE STABILITY:	In tightly sealed original container and at room temperature, storage is possible for at least 24 months. Check for signs of wearing off if the recommended storage period has been exceeded. Protect from frost, heat and moisture.
PREPARATION OF SURFACE:	Apply to clean fabric only. If necessary machine-wash items before treatment with Ceracoat textile care 328.
PROCESSING TEMPERATURE:	The correct processing temperature will be achieved as part of the conditioning cycle of the washing machine
SAFETY ADVICE:	No special safety advice
CLEANING OF EQUIPMENT:	With water
RE-COATING:	Repeat process as described
CONSUMPTION:	100 ml for about 2–3 pieces of clothes



## ADVANTAGES COMPARED TO COMPETITIVE PRODUCTS

### Permanence and longevity:

The UV-stability enables a very long lasting functionality of the coated surface

Many competitive products are slowly destroyed by sunlight and washing – competitors do not offer a textile care „to be added to the wash machine“

### 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 and cannot be applied in this easy-to-apply way

### Chemical stability – washing agent stability

The product is washing agent resistant, but you have to make sure, there are no residues of the wash powder left on the textiles after washing. Rinsing with water is very important.

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).



**ORIGINAL** 003132  
Seen by the  
Chamber of Industry and Commerce  
of Thurgovia  
8570 Weingarten (Switzerland), 2014-09-30