



HIGH QUALITY NANOTECHNOLOGY COATINGS FOR NON-ABSORBENT SURFACE  
LIKE GLASS, CERAMICS, PLASTIC, TREATED WOOD, TREATED STONES, CHROME,  
COPPER, LACQUERED METAL, LACQUERED MARBLE, PAINTED METAL, SILVER,  
GOLD, PLATINUM AND MORE

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#### CERACOAT COATING FOR NON ABSORBENT SURFACE:

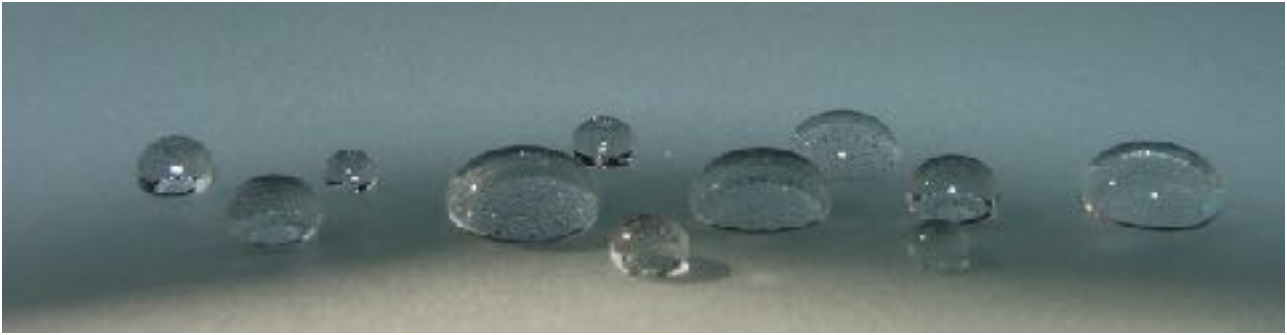
These coatings were designed to enable smooth, glass-like surfaces to have less contact with dirt particles. The hydro- and oleo phobic effects cause particles of contamination such as grease, oil, lime and materials from environmental pollution to adhere less to the substrates, and allow them to be easily removed from the coating, i.e. without applying abrasive agents or cleaning products ("Easy-clean" effect), and has anti-finger-print properties.

#### EXAMPLES OF USE:

- [?] Glass surfaces in sanitary areas (showers, mirrors, windows)
- [?] Glazed ceramic surfaces (toilets, lavabo, bath, sinks, glazed tiles)
- [?] Window glass + construction glass (conservatories, high-rise buildings)
- [?] Automotive glass (front + side windows) + Automotive bodies (metal, plastic)
- [?] Solar panels, chrome panels, copper products

#### PRODUCT CHARACTERISTICS:

- [?] Strong hydrophobic + oleo phobic properties
- [?] Strong non-stick properties – anti-finger-print properties
- [?] Excellent easy-clean performance on contamination and lime-scale
- [?] Food safe (inert) – « cleaner+renovator+coating+protectant » all-in-one



#### OTHER PROPERTIES:

- ☐ Invisible to the human eye (coating thickness: 100–150 nm)
- ☐ Permanent (UV-stable, enormous abrasion resistance)
- ☐ Resistant to temperature change, breathable, anti-bacteria properties
- ☐ Simple application (do-it-yourself) ☐ Chemical resistant

#### APPLICATION:

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

1. Manual: Application with circular motion using a clean paper, linen or microfiber cloth
2. Industrial: Available as polish-coat system

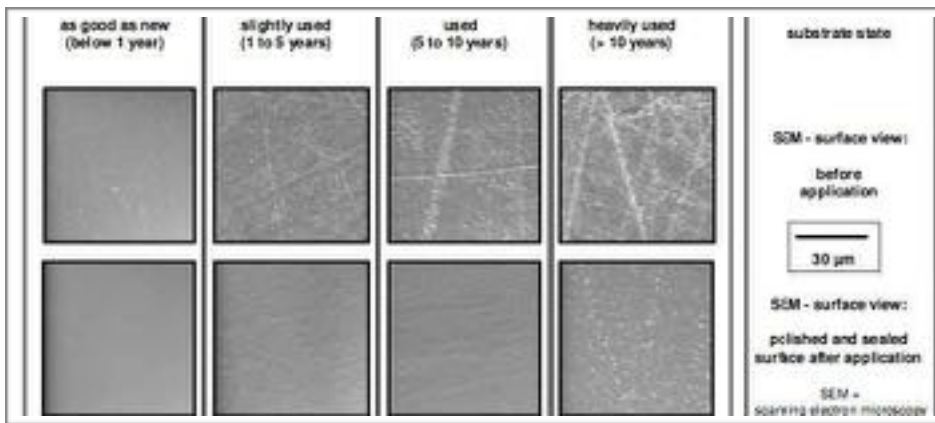
This NANO-coating is completely networked and hardened after 1 hour. The  
easy-to-clean effect can only be tested after this hardening period

#### STORAGE STABILITY:

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

#### CONSUMPTION:

Manual: 5–10 ml/m<sup>2</sup>, Industrial: 10–15 ml/m<sup>2</sup>



## 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 (about 1 year if constant contact with water like in a lavabo)

Many competitive products are slowly destroyed by sunlight and cleaning

### ☐ Abrasion resistant, easy-to-clean effect

A permanent chemical bond with the substrate enables an excellent abrasion resistance

Many competitive products can be easily removed by abrasion

### ☐ Chemical stability

The product is resistant to almost all standard household and industrial cleaners

Many competitive products must be reapplied after cleaning the surface

**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.

TESTING RESULTS: (antibacterial properties & still active after 3000 h of UV exposition)



Test Results Ceracoat „Glass Care“ 13.6.2013

Institut Fresenius

Test of bactericidal activity in accordance with EN 1340

Excerpt from the present report

Sample designation: Ceracoat „Glass Care“

Test organisms: Staphylococcus aureus (ATCC 6536)  
Pseudomonas aeruginosa (ATCC 15442)

Assessment:

According to the results of the microbiological tests Ceracoat „Glass Care“ shows a significant effect against the used test organisms Pseudomonas aeruginosa and Staphylococcus aureus. Reduction of the bacteria by a factor of 100.00%.

CBA – Chemische Produkt-Beratung und Analyse GmbH

Extract from the analysis report:

Physiological safety / food safety

Sample designation: Ceracoat „Glass Care“ (Sample of a toilet lid)

Analysis method and result:

The sample (surface about 1,25 dm<sup>2</sup>) was shored in 300 ml 15% ethanol for 24 hours at 10 ° C. Subsequently, a part of the ethanol was evaporated and the residue was determined gravimetrically. The residue was 2,0 mg/dm<sup>2</sup>. A change by ethanol could not be found.

The requirements of § 30 and 31 of the Regulations for food traffic, tobacco products, cosmetics and other consumer products (Food and Commodities Act), as amended on 9.9.1997, are complied with.

Excerpt from endurance test:

Test: Stress cracking corrosion

Test object: Plastic disc treated with Ceracoat „Glass Care“

The disc treated with Ceracoat „Glass Care“ was subjected to UV exposure for more than 3000 hours.

Of significance were at this time 2 test factors:

- Transmission loss and stress cracking corrosion (cracking)

Result after 3000 hours UV exposure:

Transmission loss: At 350 nm: 0.2% transmission loss  
At 400 nm and 600 nm: 0.0% transmission loss

Cracking: No cracking on plates treated with Ceracoat „Glass Care“.

After 290 - 450 hours only cracking on untreated plates.

Summary:

After an endurance test of 3000 hours of UV exposure there is no stress cracking corrosion on the disc treated with Ceracoat „Glass Care“ and there is only minimal or no transmission loss!



ORIGINAL 003046

Seen by the  
Chamber of Industry and Commerce  
of Thurgovie

ES70 Weingarten (Switzerland), 2014-09-24

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# Zertifikat

## Prüfzertifikat

Die DEKRA Umwelt GmbH  
bescheinigt, dass das Produkt

### Lack Versiegelung



### Ceracoat Auto Aussen

bei korrekter und bestimmungsgemäßer Anwendung auf Lackoberflächen  
von Fahrzeugen die Wiederverschmutzung durch Straßenstaub und  
Insektenschmutz gegenüber unbehandelten Oberflächen  
deutlich reduziert und die Reinigung der  
Lackoberflächen erleichtert.

Stuttgart, den: 28.5.2013

Datum des Prüfberichts: 28.6.2013

DEKRA Umwelt GmbH  
Labor für Umwelt- und Produktanalytik

Prüfzertifikatsnummer: 55  
Gültigkeit: 1 Jahr

Dr. Brian Ackerström

Prüfberichts-Nr. 55

Anlage: Prüfbericht 55

DEKRA Umwelt GmbH, Handwerkerstr. 11, D-70561 Stuttgart, [www.dekra-umwelt.com](http://www.dekra-umwelt.com)