

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

Ceracoat Group / Flawilerstrasse 31 / CH-9500 WIL / Switzerland
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CERACOAT COATING FOR NON ABSORBENT SURFACE:

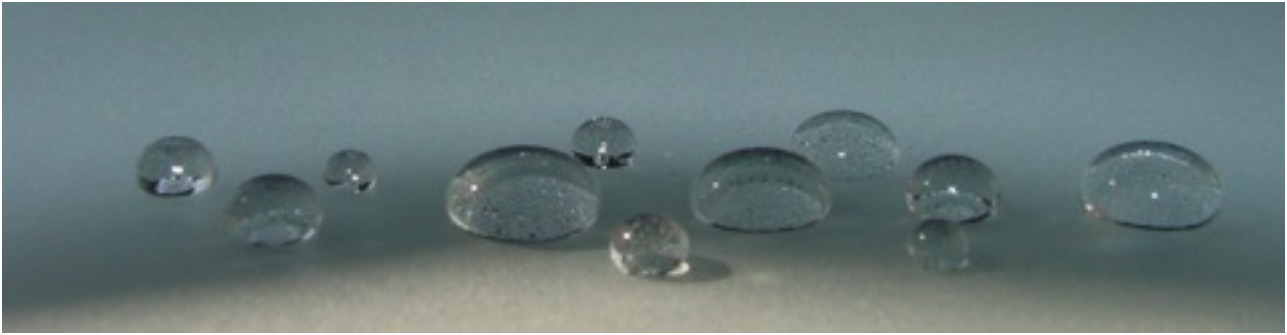
These coatings were designed to enable smooth, glass-like surfaces to have less contact with dirt particles. The hydro- and oleo phobic effects cause particles of contamination such as grease, oil, lime and materials from environmental pollution to adhere less to the substrates, and allow them to be 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

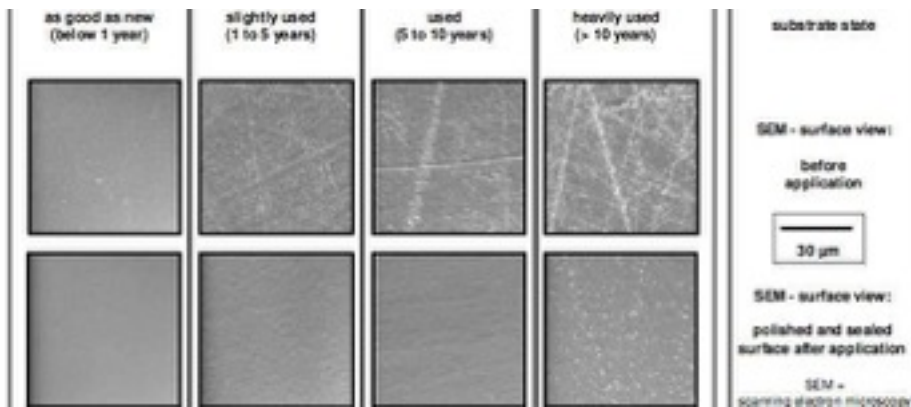
STORAGE STABILITY:

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/m², Industrial: 10–15 ml/m²

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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 (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 1040
Excerpt from the present report

Sample designation: Ceracoat „Glass Care“

Test organisms: Staphylococcus aureus (ATCC 6538)
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 100 000.

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 dm²) was stored in 300 ml 15% ethanol for 24 hours at 40 ° C. Subsequently, a part of the ethanol was evaporated and the residue was determined gravimetrically. The residue was 2.0 mg/dm². 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 800 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 Thurgovia

8570 Weingalden (Switzerland), 2014 -09- 24

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 28.6.2013

Datum des Prüfberichts: 28.6.2013

DEKRA Umwelt GmbH
Labor für Umwelt- und Produktanalytik

Prüfzertifikatsnummer: 55
Gültigkeit: 1 Jahr

Dr. Roland Ackermann

Prüfberichts-Nr. 55

Anlage: Prüfbericht 55