erstophob

WATER AND OIL - **REPELLENT**

TECHNICAL
DATA SHEET

Permanent, Transparent, Hydrophobic- and Easy-to-Clean Coating

SURFACE SEAL

PROPERTIES & PRODUCT DESCRIPTION

- Permanent clear coating
- High hydrophobic effect
- High slip effect
- Easy-to-Clean
- Excellent adhesion to most substrates
- High UV and chemical resistance
- Economical
- Easy to apply
- Cures at room temperature
- Fluorine-free

erstophob Surface Seal is a transparent, ready-to-use "ceramic" coating which can be used on many non-absorbent surfaces to provide long-lasting protection.

Based on our patented synthesis glass technology, **erstophob Surface Seal** creates a permanent glass ceramic barrier layer with an especially hydrophobic surface with very good beading properties.

erstophob Surface Seal chemically bonds to the substrate and cures with atmospheric moisture at room temperature.

The nano planarization creates perfect easy-to-clean properties and the treated surface can be easily and gently cleaned by hand. The glass ceramic barrier layer also protects the surface from direct contact with detergents and chemicals.

The surfaces protected with **erstophob Surface Seal** can be very easily cleaned several times without a new application.

The cured **erstophob Surface Seal** ceramic coating thus protects the paint from environmental influences such as UV radiation, road salt, bird droppings and rust, and reduces mechanical damage, thus making a significant contribution to maintaining or increasing the value of the vehicle. Areas of use Painted surfaces on cars, commercial vehicles, motorcycles, motor homes, caravans, boats, etc.

APPLICATION

erstophob Surface Seal ceramic coating is particularly suitable for smooth, non-absorbent surfaces, such as one- or two-component paints (polyurethane or epoxy systems), polyester paints, GRP surfaces, but furthermore particularly for metal surfaces like aluminum, zinc, stainless steel, copper und several alloys (e.g. brass and bronze).

Typical applications for erstophob Surface Seal are surfaces like:

- Car paint
- Paint of commercial vehicles
- Motorcycles
- Motor homes
- Caravans
- Boats
- Aluminium rims
- etc.

RECOMMENDATIONS FOR USE

Example on vehicle:

Before the polishing and sealing process, thoroughly pre-clean or wash the vehicle with an alkaline cleaner (we recommend an oxalic acid based cleaner). In the case of coarse soiling such as tree resin, rust, tar, etc., pre-treat with a cleanser for it.

Depending on the condition, the paint preparation of strongly to moderately weathered paints is carried out by machine using coarse abrasive polish or fine abrasive polish.

Processing of slightly weathered paints and hologram removal after polishing with a fine cut high-gloss polish. For the exact processing, please refer to the product information of the polish you use.

Please let the manufacturer of the polish confirm that the polish is free of wax or silicone!

Remove polish residues completely with microfiber polishing and sealing cloth towels. Wipe all surfaces with a clean, microfiber polishing and sealing cloth soaked with a silicone & wax remover with little pressure and then wipe with another new polish and sealing towel with the other hand directly before drying. This is the only method to completely remove any tensides, drying aids, oils contained in polishes and to avoid adhesion problems of the coating. If you not sure you removed everything, repeat the process using a new microfiber polishing and sealing cloths.

Caution: In the case of sensitive solid-color or one-coat paints, Silicone & Wax Remover but also **erstophob Surface Seal** can damage the paint or make it matt.

Please always create a test area!

Notice: If you wish to improve the covalent bonding of the coating to the paint, clean the paint with 100% isopropyl alcohol. Use high quality isopropyl alcohol to avoid creating new contaminants. Polish now the last streaks with another clean microfiber polishing cloth without pressure. The paint should now have a scratch and hologram-free surface when exposed to sunlight or a paint control lamp. After this step, the paint should no longer be touched with the palms/fingers. We already recommend working with gloves when cleaning to avoid transferring fats and salts from the skin to the paint. The surface is now perfectly prepared for the ceramic coating **erstophob Surface Seal.**

To apply, place use a soft, thin microfiber cloth, (we recommend microfiber cloths for cleaning glasses) for applying the product. Now lay the recommend microfiber application cloth over the applicator block. Wet the entire surface of the microfiber application cloth with **erstophob Surface Seal.** The microfiber application cloth must be clearly soaked with **erstophob Surface Seal** over the entire surface. Now distribute **erstophob Surface Seal** it quickly on the paint by wiping with the applicator line by line on the paint.

A closed liquid film must be visible. After applying two cross-coats (two lanes lengthwise and two lanes crosswise), allow the product to flash off for **2 - 5 minutes** and then polish off immediately with a Soft high-pile microfiber polishing cloth. First re-move the excess and then polish off with a fresh microfiber polishing cloth side in circular movements from the outside to the inside without pressure. Check the result with a paint control lamp to make sure it is free of veils.

TECHNICAL DATA

Appearance	colorless liquid
Density	ca. 0.92 g/cm3
Binder base	Polysilazane hybrid polymer
Flash point	< 21 °C
Consumption	Car ca. 20-30 ml
Shelf life	12 months from production date at 10 °C
Container size	30ml, 50ml, 75ml, 100ml, 500ml, 5L, 25L, 150L

CONDITION SUBSTRATE

The substrate to be coated must be clean, grease-free and absolutely dry. Areas which are difficult to reach, such as cavities or drainage channels etc. must be dried additionally with absorbent cloths or blown dry with compressed air.

On contact with a damp substrate surface, **erstophob Surface Seal** reacts prematurely and cannot form a permanent seal. The substrate temperature must be between **+ 15 °C and + 30 °C,** the relative humidity at **40 % - 80 %.**

Before use, please always ensure that **erstophob Surface Seal** and the surface to be coated are warmer than the dew point. Please also note that cleaning the paint can cool it down. We recommend measuring the temperature directly before applying **erstophob Surface Seal.**

INSTRUCTIONS FOR USE

The product should be applied by trained personnel only. Test on a small area or apply a test coat before application.

erstophob Surface Seal ceramic coating reacts with air humidity. This can cause crystals to form on the rim when the bottle is opened. If these crystals get on the application cloth, the surface to be coated is scratched.

Therefore, the crystals must be wiped off with a cloth before the product is dropped onto the application cloth.

If **erstophob Surface Seal** becomes "more viscous" during application, too little material has been used and more material must be applied on application cloth.

For double coatings, a drying time of approx. 15 to 25 minutes should be observed after the first coating. Multiple layers can improve the performance of the coating.

erstophob Surface Seal ceramic coating must be applied at an ambient temperature of at least + 15 °C and a relative humidity of 40 %- 80%. Avoid direct sunlight!

Apply the coating in dry conditions and never in rain. The coating is applied with an applicator. Any mistakes can be rectified within approx. 5 min of application.

The average coverage is up to ca. 15ml/m2. the average consumption for a car is ca. 15 - 30 ml and this should not be significantly exceeded. During application, only small quantities should be decanted from the original container into the application container.

Residues of unused **erstophob Surface Seal** should not be returned from the application container to the original container. Traces of water in the applicator should also be avoided.

Applicators dampened with water should not be used. If dirt appears on the applicators during coating, they should be replaced with clean applicators to avoid dirt entering the **erstophob Surface Seal** coating.

The applicators cannot be reused once the coating has been applied. If the solution in the application container solidifies or a deposit forms, it can no longer be used. Solutions that are no longer useable must be disposed of properly.

erstophob Surface Seal is dry-to-touch after about one hour. The coating is weatherproof after 24 hours at 20°C. Carry out a first car wash after 5 days at the earliest, as the coating is only then completely cured.

Nevertheless, bird droppings and insect residues should be removed gently and quickly during the first nine days.

Cleaning agents with pH values below 3 or above 12 should be avoided. In general, a neutral cleaning agent is sufficient for cleaning. Please make sure that all cleaners are rinsed off with water after use. Drying of cleaning agents can damage the coating.

Car Wash:
In order to preserve the high-gloss ceramic surface as long as possible, hand washing is recommended. Use for cleaning neutral washes.

SAFETY INSTRUCTIONS

The instructions on the accompanying Safety Data Sheet must always be followed.

erstophob Surface Seal contains physically and chemically bound ammonia by the polysilazanes hybrid polymers. Appropriate protective measures should therefore be taken when opening the container and processing.

erstophob Surface Seal is sensitive to hydrolysis and reacts violently with water, alcohols, acids and bases.

erstophob Surface Seal should be stored in a dry, well-ventilated, cool (10°C) place.

A gradual reaction of **erstophob Surface Seal** with moisture leads to a reduction in product quality, which is accompanied by an increase in viscosity, clouding and the formation of bottom deposits are also possible. Higher viscosity solutions should no longer be used.

erstophob Surface Seal residues should not be mixed with other waste for disposal. They should be collected separately in a dry, pressure-resistant waste drum. The waste containers should be kept in a dry, cool and well-ventilated place. They must not be tightly closed during storage. Monthly venting of the tanks is recommended.

Waste containing **erstophob Surface Seal** must be taken to an appropriate disposal facility.

TECHNICAL SERVICE

Our Application Department is available to answer technical questions on performance, use and chemical specifications.

We provide information and advice on application technologies and relevant regulations based upon our current knowledge and opinion.

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Any reference from our literature requires prior written consent and in any reference the source shall be stated.

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