

MADE
IN
GERMANY

ersto PHOB

WATER AND OIL - **REPELLENT**

Functional Polysilazane Surface Sealing Systems

Transparent high-performance protection systems for premium surfaces, mobility, marine, industrial and infrastructure applications.

Protect | Repel | Simplify Cleaning

PRODUCT PROFILE

erstophob is ERST GmbH's functional surface sealing and protection technology platform for premium, smooth and non-absorbent surfaces.

Based on functional polysilazane technology, it creates very thin, transparent protective sealing layers that chemically bond to suitable substrates and selectively modify their surface properties.



Depending on the product variant, the focus is on different protection functions:

- hydrophobic and oleophobic surface properties
- Easy-to-Clean effect
- reduced adhesion of dirt and contaminants
- UV and weathering resistance
- anti-graffiti function
- protection against chemical exposure
- corrosion protection on suitable metallic surfaces
- easier cleaning and maintenance

The transparent seal largely preserves the characteristic visual appearance of suitable substrates while combining functional surface protection with a high level of cleanability.

THREE PRODUCT VARIANTS – ONE TECHNOLOGY PLATFORM

erstophob SURFACE SEAL

Repel | Clean | Preserve

Transparent Easy-to-Clean surface seal for automotive paint finishes and other suitable smooth, non-absorbent surfaces.

erstophob MARINE PROTECT

Protection under demanding conditions.

Permanent transparent protective seal for marine, rail, mobility and highly exposed surfaces.

erstophob INDUSTRIAL PROTECT

A barrier against graffiti, contamination and corrosion.

Transparent functional protective seal for industrial, infrastructure and metal surfaces.



The TECHNOLOGY

DEVELOPED FOR FUNCTIONAL HIGH-PERFORMANCE SURFACE PROTECTION

Modern surfaces are exposed to a wide range of environmental, operational and in-use conditions.

Depending on the application, these include:

- moisture and weathering
- UV radiation
- exposure to water, oil and dirt
- atmospheric and industrial contamination
- repeated cleaning cycles
- chemical exposure
- graffiti
- corrosive conditions

This is exactly where erstophob comes in.

The polysilazane-based technology forms very thin functional sealing and barrier layers on suitable substrates.

These layers selectively modify the surface properties and, depending on the respective product variant, support repellency, cleaning, protection and long-term value preservation.

POLYSILAZANE TECHNOLOGY PLATFORM

Functional surface sealing

erstophob forms transparent, very thin and high-performance protective layers that react directly with suitable surfaces.

Depending on the variant, the seal supports:

- reduced dirt adhesion
- Easy-to-Clean properties
- water and oil repellency
- UV and weathering resistance
- anti-graffiti function
- chemical resistance
- corrosion protection
- reduced cleaning and maintenance requirements



CHEMICAL BONDING TO THE SUBSTRATE

erstophob systems are functional surface sealants whose mode of action is supported by chemical bonding to suitable substrates.

Depending on the product type, material and application process, this can result in:

- high substrate adhesion
- durable functional surface properties
- high environmental and weathering resistance
- improved cleanability
- long-term protection of suitable surfaces

The polysilazane systems can cure at room temperature through exposure to atmospheric moisture.

EASY-TO-CLEAN SURFACE TECHNOLOGY

Depending on the product and application, the functional surface structure reduces the adhesion of:

- water
- oil
- dirt
- brake dust
- environmental deposits
- graffiti and paint residues

Treated surfaces can therefore often be cleaned more easily and maintained more efficiently over the long term.



01 erstophob SURFACE SEAL

Transparent Easy-to-Clean Surface Seal

erstophob Surface Seal has been developed for premium painted, smooth and non-absorbent surfaces where repellency, care and cleaning are the primary requirements.

The transparent functional seal creates pronounced hydrophobic properties and reduces the adhesion of oil and contaminants.

This produces an effective Easy-to-Clean effect.

DEVELOPED FOR:

- automotive paint finishes
- premium painted surfaces
- smooth, non-absorbent surfaces
- ceramic surfaces
- bathroom and sanitary areas
- tiles

TYPICAL APPLICATIONS:

- car and vehicle paint finishes
- painted vehicle components
- premium painted surfaces
- bathroom and sanitary tiles
- smooth ceramic surfaces
- comparable non-absorbent surfaces

KEY PROTECTION FEATURES:

- pronounced hydrophobicity
- oil and dirt repellency
- Easy-to-Clean effect
- reduced adhesion of contaminants
- transparent surface sealing
- support for long-term surface preservation
- UV and heat resistance
- acid resistance within the product-specific resistance profile

REPEL | CLEAN | PRESERVE

Surface Seal selectively modifies the properties of the treated surface.

Water, oil and dirt are less able to adhere. Suitable surfaces can therefore be cleaned more easily and kept looking well maintained over the long term.

The transparent seal has been developed to preserve the original visual character of the substrate as far as possible.



02 erstophob MARINE PROTECT

Permanent Protection for Marine, Rail and Mobility

erstophob Marine Protect is a transparent functional protective seal for premium, smooth and non-absorbent surfaces that are regularly exposed to demanding outdoor, environmental and cleaning conditions.

The focus is on marine, rail, mobility and comparable exposed applications.

DEVELOPED FOR:

- marine applications
- boats and yachts
- railway and rail vehicle surfaces
- public transport systems
- mobility and transport
- exposed painted surfaces
- suitable anti-graffiti applications

TYPICAL APPLICATIONS:

- boat and yacht surfaces
- GRP components
- painted marine surfaces
- rail vehicle exterior surfaces
- buses and other transport vehicles
- coated transport surfaces
- highly exposed smooth exterior surfaces

KEY PROTECTION FEATURES:

- Easy-to-Clean properties
- anti-graffiti function
- high UV resistance
- high weathering resistance
- reduced dirt adhesion
- protection under repeated cleaning
- long-term surface protection

PROTECTION UNDER DEMANDING CONDITIONS

Marine Protect forms a permanent transparent functional & protective layer on suitable substrates.

The seal reduces the adhesion of dirt, environmental deposits and graffiti, making subsequent removal easier.

Particularly on large, exposed or frequently cleaned surfaces, Marine Protect combines functional protection with a high level of cleanability.

PERMANENT ANTI-GRAFFITI FUNCTION

On suitable surfaces, Marine Protect can be used as a permanent protective seal against graffiti.

Graffiti and paint residues are less able to adhere and can be removed more easily using suitable cleaning methods.

The seal is designed to allow repeated cleaning without requiring a complete reapplication immediately after every cleaning cycle.





03 erstophob INDUSTRIAL PROTECT

Transparent Anti-Graffiti, Easy-to-Clean and Corrosion Protection

erstophob Industrial Protect is a permanent transparent protective seal for smooth, non-absorbent industrial, infrastructure and metal surfaces.

The system combines Easy-to-Clean properties, an anti-graffiti function and corrosion protection in a functional polysilazane barrier layer.

DEVELOPED FOR:

- industrial metal surfaces
- technical installations
- infrastructure
- metal structures
- suitable painted surfaces
- selected polished natural stone surfaces
- GRP

TYPICAL APPLICATIONS:

- tank and industrial installations
- traffic signs
- ventilation systems
- technical equipment
- aluminium wheels
- aluminium
- stainless steel
- steel
- zinc
- copper
- brass and bronze
- suitable alloys
- polyurethane and epoxy coatings
- GRP surfaces
- polished marble
- polished granite

KEY PROTECTION FEATURES:

- anti-graffiti protection
- Easy-to-Clean effect
- corrosion protection
- high substrate adhesion
- high UV resistance
- high chemical resistance
- weathering protection
- reduced dirt adhesion
- high surface coverage efficiency



A BARRIER AGAINST GRAFFITI, CONTAMINATION AND CORROSION

Industrial Protect forms a very thin transparent barrier layer on suitable substrates.

It chemically bonds to the substrate and supports protection against contamination, graffiti, weathering and corrosive exposure.

Treated surfaces can be cleaned repeatedly without requiring a complete new coating system after each cleaning process.

HIGH EFFICIENCY

Industrial Protect is applied in a very thin layer.

The average material consumption is approximately:
approx. 15 ml/m²

A uniform, controlled application is essential for forming the functional protective layer.

CURING

The coating cures at room temperature through exposure to atmospheric moisture.

Under suitable conditions, the surface is touch-dry after approximately one hour.

Full performance is achieved after approximately 5 to 7 days at room temperature.

For certain metal surfaces, thermal curing may be used to optimise substrate adhesion.

ADDITIONAL PRODUCT PROPERTY

Fluorine-free.

VERSATILE APPLICATION AREAS

The erstophob product family covers different requirements within a common polysilazane technology platform.

Typical application areas include:

- automotive
- premium painted surfaces
- bathroom, sanitary and tiled areas
- marine and yachts
- rail
- mobility and transport
- industrial installations
- technical equipment
- infrastructure
- metal surfaces
- composite materials
- suitable polished natural stone surfaces

PROPERTIES & BENEFITS

Depending on the product variant:

- transparent functional surface sealing
- polysilazane-based technology
- chemical bonding to suitable substrates
- Easy-to-Clean surface behaviour
- hydrophobic properties
- oleophobic properties
- reduced dirt adhesion
- UV and weathering resistance
- anti-graffiti function
- chemical resistance
- corrosion protection for suitable metal surfaces
- high surface coverage efficiency
- curing at room temperature possible
- suitable for professional industrial application

The specific performance profile depends on the product variant, substrate, application and exposure conditions.



APPLICATION & PROCESSING

Depending on the product variant, erstophob systems are supplied ready for use.

Depending on the product, substrate and application, they may be applied using, among other methods:

- microfibre applicators
- suitable coating rollers
- HVLP spray systems

For optimum sealing, the respective substrate must be:

- clean
- free from grease and contaminants
- suitably prepared
- completely dry

Moisture on the substrate can cause a premature reaction, particularly with moisture-reactive polysilazane systems, and may impair formation of the functional seal.

Test areas and material compatibility checks are recommended before large-scale application.

Binding application instructions are provided in the relevant Technical Product Information and Safety Data Sheet.

SUITABLE SUBSTRATES

Depending on the product variant, erstophob systems can be used on suitable smooth and non-absorbent substrates, including:

- automotive paint finishes
- 1K and 2K coating systems
- polyurethane coatings
- epoxy coatings
- polyester paints and coatings
- GRP
- tiles
- suitable ceramic surfaces
- aluminium
- stainless steel
- steel
- zinc
- copper
- brass
- bronze
- other suitable alloys
- polished marble
- polished granite

Not every substrate is equally suitable for every product variant.

The material, existing coating, surface preparation and subsequent exposure conditions must be taken into account before application.

3 PRODUCTS
CLEARLY DEFINED FUNCTIONS

SURFACE SEAL

Easy-to-Clean & Repellency

For automotive paint finishes, premium painted surfaces, tiles, bathroom & sanitary areas, and comparable smooth, non-absorbent surfaces.

MARINE PROTECT

Exposed Surfaces & Anti-Graffiti

For marine, rail, mobility, transport and permanently highly exposed exterior surfaces

INDUSTRIAL PROTECT

Industry & Corrosion Protection

For industrial installations, infrastructure, metal surfaces & applications requiring increased protection against graffiti, contamination and corrosion.

FAQ

Is erstophob a surface sealant?

Yes. erstophob comprises functional polysilazane-based surface sealants.
Depending on the product variant, they combine transparent sealing with Easy-to-Clean, hydrophobic, oleophobic, anti-graffiti or corrosion protection properties.

Can Surface Seal be used to seal automotive paint finishes?

Yes. erstophob Surface Seal has been developed, among other applications, for the transparent functional sealing of suitable automotive paint finishes and other smooth, non-absorbent surfaces.

Does the seal alter the appearance of the surface?

erstophob systems are transparent and have been developed to preserve the original appearance of suitable surfaces as far as possible.
As substrates can react differently, a test area is recommended before large-scale application.

Can sealed surfaces be cleaned repeatedly?

Yes. Marine Protect and Industrial Protect in particular are permanent protection systems designed for repeated cleaning without requiring a complete reapplication immediately after every cleaning cycle.

Which variant is intended for corrosion protection?

Within the erstophob product family, Industrial Protect is the primary variant for combined Easy-to-Clean, anti-graffiti and corrosion protection on suitable industrial, infrastructure and metal surfaces.

Which variant is suitable for automotive paint finishes and tiles?

Surface Seal is the main product for these applications.

Which variant is suitable for boats, yachts, rail and mobility?

Marine Protect is intended for highly exposed marine, rail & mobility surfaces.

Does erstophob cure at room temperature?

Depending on the product variant and ambient conditions, the polysilazane-based systems can cure at room temperature through exposure to atmospheric moisture.
The product-specific application instructions must be observed.



PART OF THE ERST PRODUCT WORLD

erstophob is the ERST product line for functional surface sealing and surface protection.

The focus is on:

- protection of premium surfaces
- reduced dirt adhesion
- Easy-to-Clean properties
- simplified cleaning and maintenance
- protection against environmental & operational exposure
- anti-graffiti function in the designated variants
- corrosion protection with Industrial Protect
- long-term value preservation of suitable surfaces

ERST

Products, systems and technologies for functional surfaces.



erstophob

Functional Polysilazane Surface Sealing Systems

SURFACE SEAL

Repel. Clean. Preserve.

MARINE PROTECT

Protection under demanding conditions.

INDUSTRIAL PROTECT

A barrier against graffiti, contamination and corrosion.

Note

Check the substrate and material compatibility before application. Detailed information on application and product safety is provided in the relevant Technical Product Information and the current Safety Data Sheet.



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