



CERAMIC  
COATINGS  
PRODUCTS  
CATALOG

ADVANCED TECHNOLOGIES  
FOR PROTECTION AND CARE

2024



## ITP-SYSTEM in numbers:



The company was founded in 2013 and is in its 11th year of creating and launching innovative products using modern technologies!

Honored twice by Forbes magazine in the Forbes Diamonds 2022 and Forbes Diamonds 2023 rankings.



We developed dedicated products for 28 independent private labels. We provide them with full technological, production and logistical support.

We have developed more than 200 unique products for many industries. Our products were developed in response to customer needs.



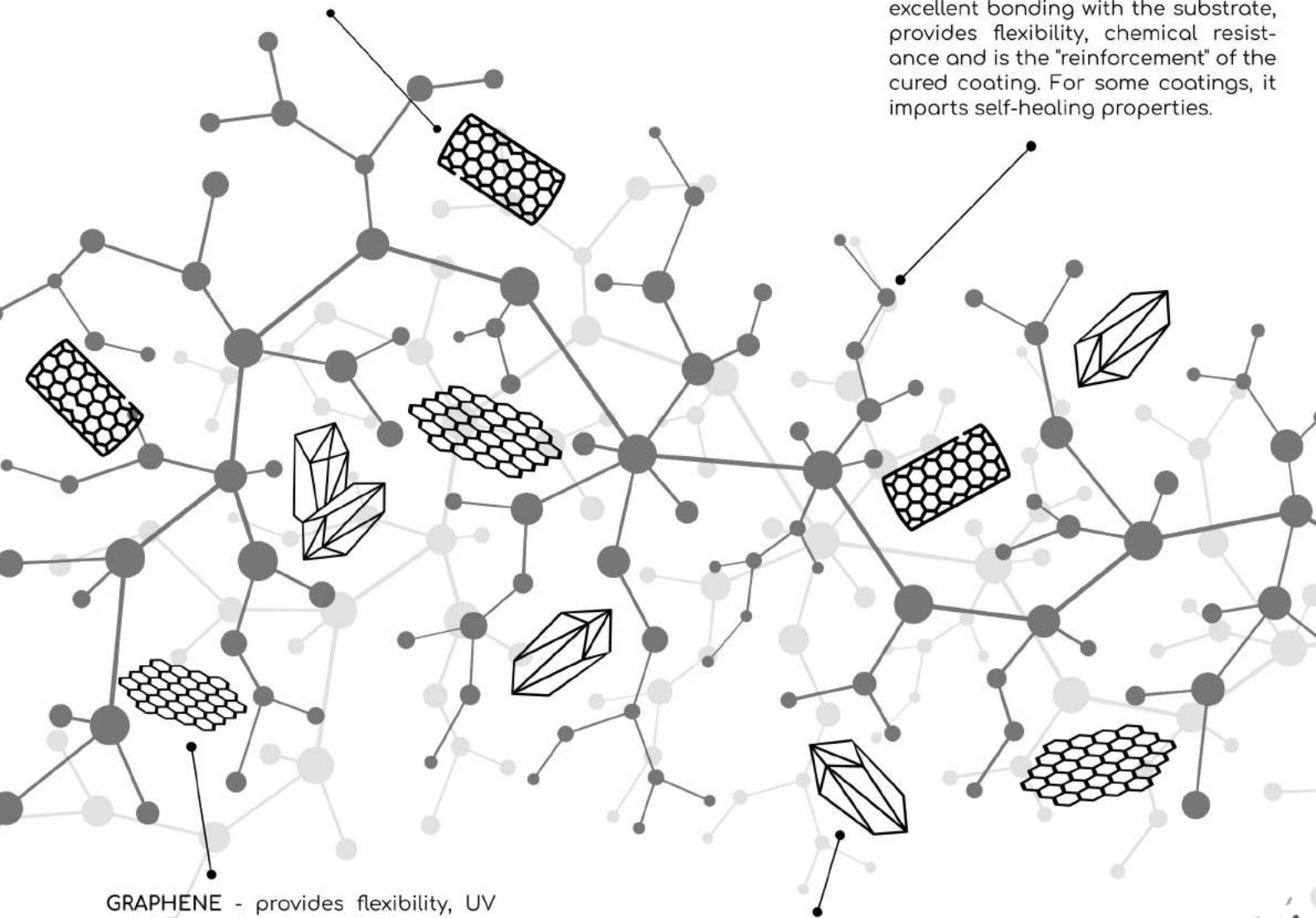
Our products are available on 6 continents in 61 countries! They are tailored to local preferences and local legislation.



# Ceramic coatings

**CARBON NANOTUBES** - significantly increases the flexibility and thermal resistance of the coating. It perfectly dissipates charges and protects the coating from damage due to changes in temperature (contraction of the car body).

**POLYMER MATRIX** - provides excellent bonding with the substrate, provides flexibility, chemical resistance and is the "reinforcement" of the cured coating. For some coatings, it imparts self-healing properties.



**GRAPHENE** - provides flexibility, UV resistance, chemical stability, charge and heat dissipation. Strengthens and consolidates the coating.

**CERAMIC NANOPARTICLES** - provide high hardness and mechanical strength of the coating. Increases its resistance to peeling and eliminates the risk of scratches.



# Create a private label



The production of all formulations is carried out in the European Union, using local raw materials and respecting the environment. All our products meet high quality standards and comply with EU requirements (UFI, PCN, SDS and TDS cards), so they can be safely marketed.



We create our products completely in our factory. From mixing the ingredients in reactors, through confectioning to labeling and packaging. When creating a product, we have the ability to bundle it with applicators, microfiber cloths and other additives. All additives are of excellent quality and customizable.



It is possible to label products using stickers supplied from the printing house. We also have our own printing station, which allows us to produce small series of labels according to the design provided. We can also help develop the content for the labels so that they meet formal and legal requirements.



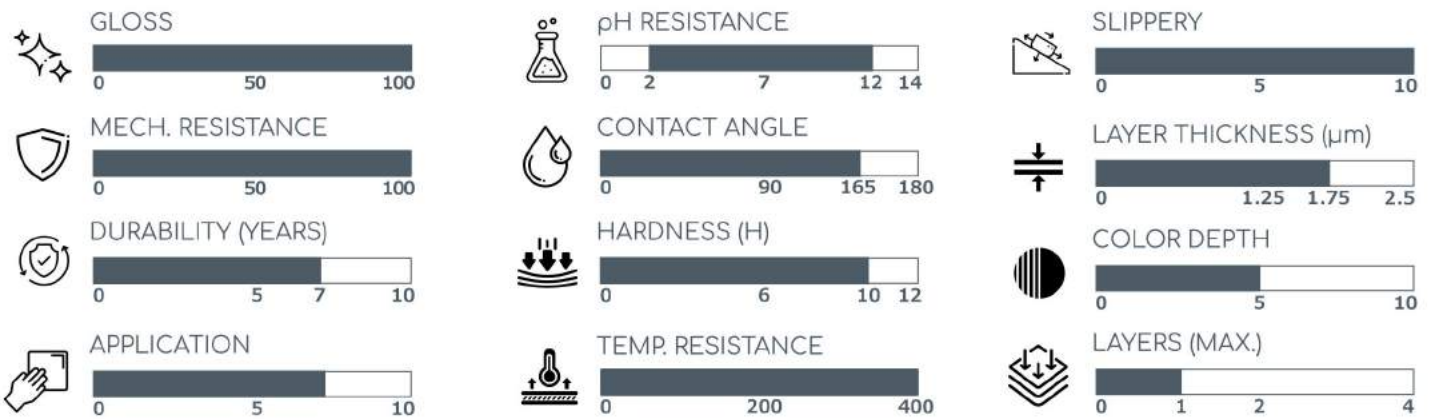
All our products can be packaged in dedicated boxes. Moreover, it is possible to change the type of bottle (different shape, color or material of manufacture) and even the closure (trigger, atomizer, cap, flip-top, disc top and others). All our packaging is characterized by excellent quality and durability.



For our products, we provide a set of technical documents (safety data sheets, ingredient sheets, technical sheets) in 9 languages. Our products meet the stringent requirements of the European Chemicals Agency (ECHA), such as PCN notification and individual UFI number.



# OBSIDIAN GRAPHENE



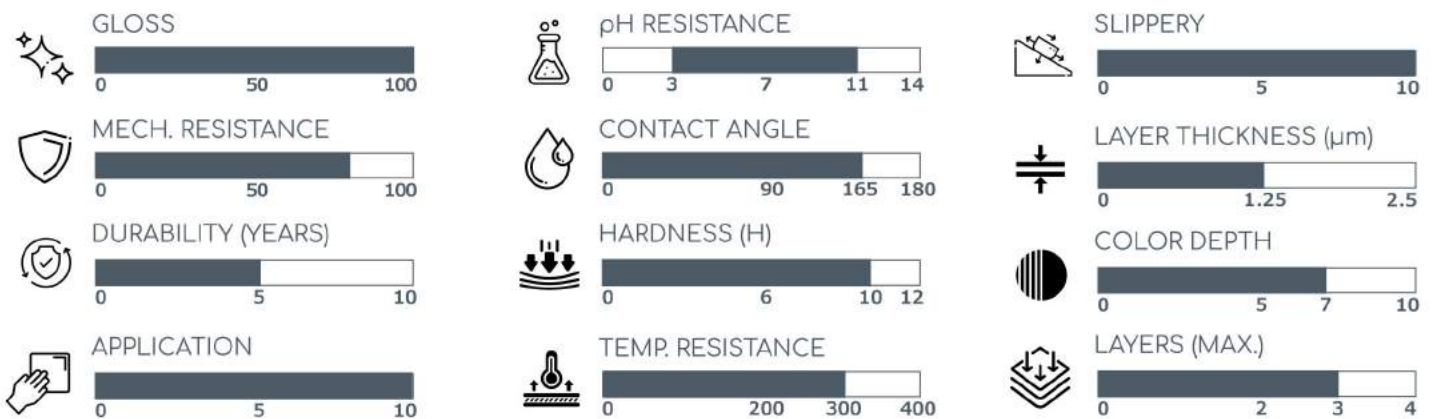
**OBSIDIAN GRAPHENE** - is an advanced nanocomposite coating. The silicone-based matrix suspends particles of graphene (carbon allotrope, 2000 ppm) and ceramic nanoparticles (titanium oxide 200 ppm, alumina 100 ppm, cerium oxide 100 ppm). The coating's silicone matrix provides it with excellent graftability, flexibility and a superhydrophobic and self-cleaning effect. The addition of prismatic graphene (RGO) enhances the coating with an antistatic effect, facilitates heat dissipation and increases its resistance to chemicals, weathering and UV resistance. Ceramic nanoparticles dramatically increase the hardness of the coating and its resistance to peeling. In addition, the complete nanocomposite system perfectly fills surface micropores.

The coating is used in the protection of car bodies, windows, rims and plastic parts. In addition, it can be used to protect yachts, motorcycles, bicycles and aircraft. The product protects against corrosion and aggressive chemicals.

Obsidian GRAPHENE exhibits shape memory due to its unique composition. This means that when heated to 90 degrees Celsius, it regains its original shape, masking minor scratches and regaining its original smooth and glossy surface again, even after a long time of use.



# OBSIDIAN EDX



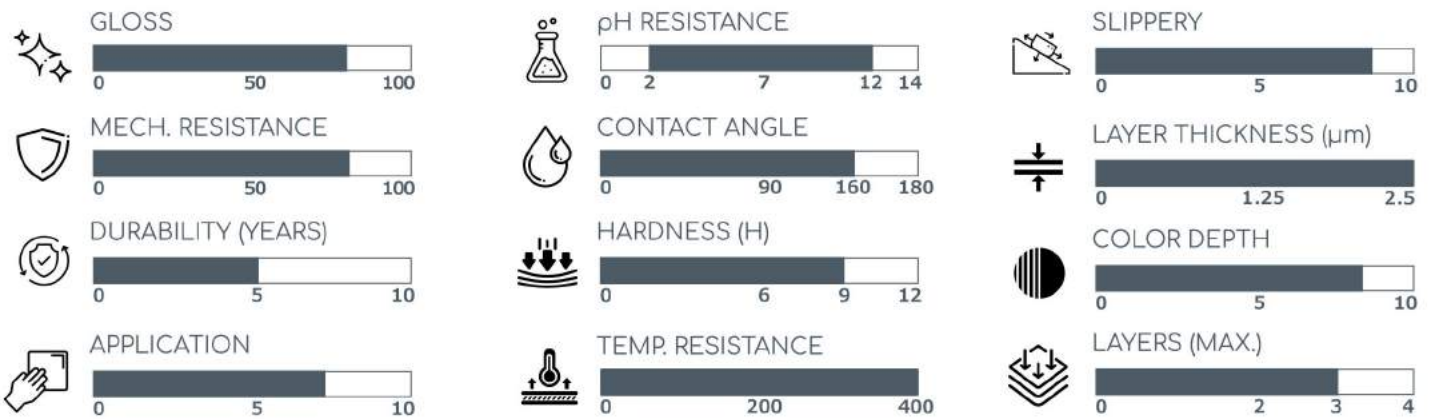
OBSIDIAN EDX is an advanced hybrid (carbon-silicate) coating. The spatial structure of the coating is formed by a branched network of molecules, the core of which are silicon (Si) atoms. It forms the matrix of the coating, guarantees excellent adhesion to the substrate and provides flexibility and hydrophobicity. This structure is reinforced with carbon nanoparticles - graphene (prism RGO, 100 ppm), carbon nanotubes (multi-walled, 100 ppm) and nanodiamonds (100 ppm). Such additives guarantee high coating hardness, peel resistance, surface charge dissipation, weathering and UV resistance, and thermostability.

The coating is used in the protection of car bodies, windows, rims and plastic parts. In addition, it can be used to protect yachts, motorcycles, bicycles and aircraft. The product is characterized by outstandingly simple installation and excellent performance properties.

Obsidian EDX is suitable for protecting matte varnishes and surfaces covered with color film and PPF film. The coating does not require top-coat. Even surfaces made of polycarbonate (helmets and goggles) or rubber can be protected with the coating.



# OBSIDIAN ELITE



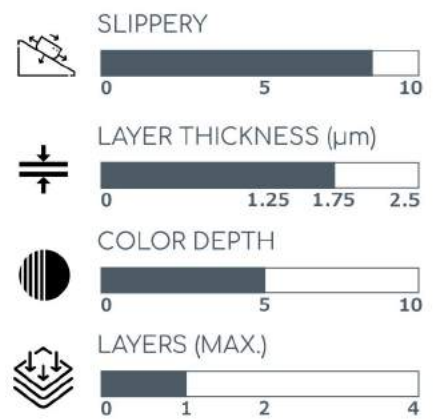
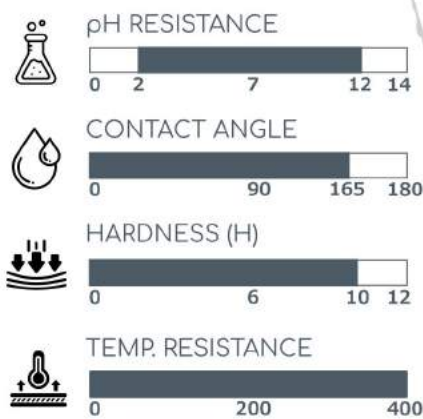
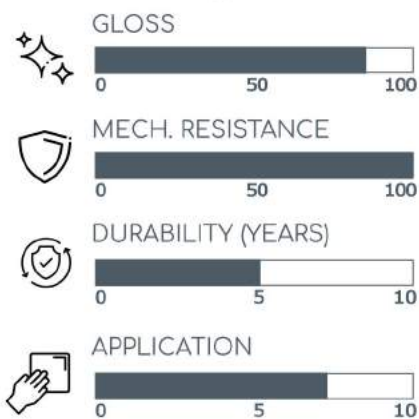
**OBSIDIAN ELITE** is an advanced hybrid polymer (silicate-polyurethane) coating. In contact with the surface of the car body, the polymers are chemically bonded to the substrate and mutually coupled, resulting in a dense polymer network on the protected surface. The polymers guarantee excellent flexibility, resistance to temperature changes, aggressive chemicals, and give a superhydrophobic effect and significantly deepen the color of the paint. The network is enriched with ceramic nanoparticles (silicon oxide, titanium oxide), which dramatically increase the hardness of the coating and its resistance to mechanical damage and scratches. The combination of hardness and flexibility guarantees excellent performance of the coating and its durability.

The coating is used in the protection of car bodies, windows, rims and plastic parts. In addition, it can be used to protect yachts, motorcycles, bicycles and aircraft. The product protects against corrosion and aggressive chemicals.

**OBSIDIAN ELITE**, thanks to its unique composition, exhibits shape memory (when 2-3 layers of product are applied). This means that when heated to 90 degrees Celsius, it regains its original shape, masking minor scratches and regaining its original smooth and glossy surface again, even after a long time of use.



# OBSIDIAN PHPS



**OBSIDIAN PHPS** is an extremely durable coating for protecting rims and metal parts. The product contains a system of elastomers (flexible polymers) enriched with a substance that breaks down to crystalline silicon oxide (quartz) in contact with atmospheric air. As a result, the coating forms an extremely hard and durable crystalline layer, reinforced with polymer fibers. Such a composition guarantees excellent resistance to aggressive environmental conditions (dust, ice, snow, mud, road salt) and thermal stability. As a result, it can be used on surfaces that heat up strongly (exhaust system) and are exposed to intense influence of the mentioned environmental factors.

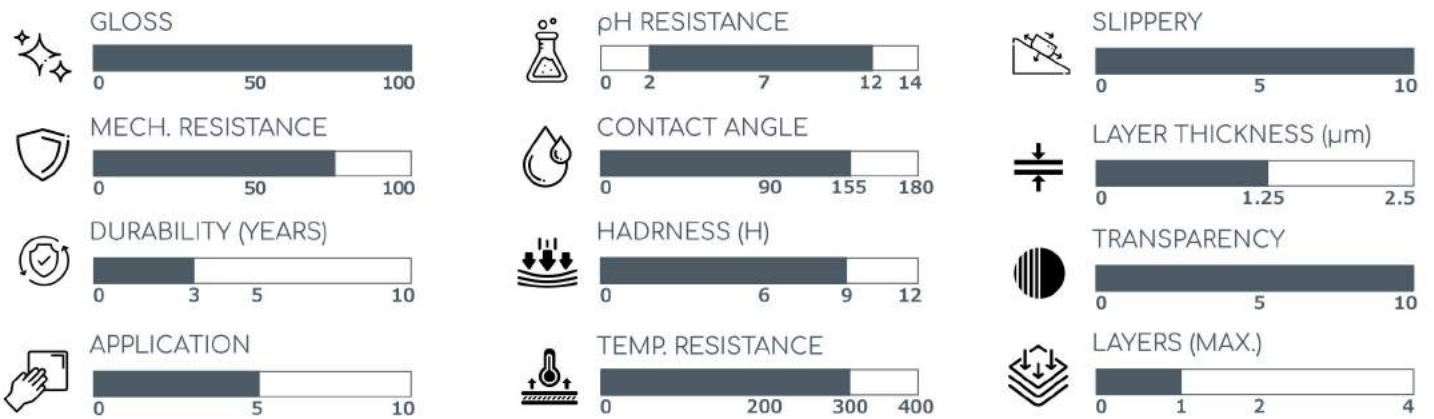
The coating is used in the protection of aluminum, steel and painted rims. In addition, it can be used on any metal parts, including those that heat up strongly. The product protects against corrosion and aggressive chemicals.

**Obsidian PHPS** can also be used on plastic parts. In this case, a compatibility test should be performed in an invisible area to check whether the ingredients in the product will not cause discoloration, or chemical damage to the surface of the plastic.





# GLASS GRAPHENE



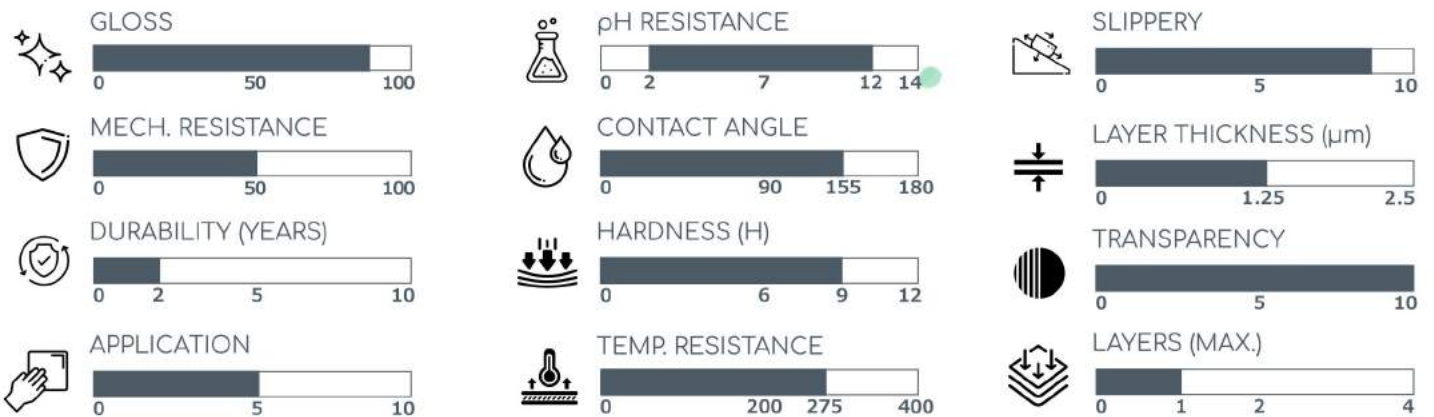
**GLASS GRAPHENE** is an advanced nano-composite coating. The silicate matrix suspends particles of graphene (carbon allotrope, 2000 ppm) and ceramic nanoparticles (titanium oxide 200 ppm, alumina 100 ppm, cerium oxide 100 ppm). The coating's silicate matrix provides it with excellent graftability, flexibility and a superhydrophobic and self-cleaning effect. The addition of prismatic graphene (RGO) enhances the coating with an antistatic effect, facilitates heat dissipation and increases its resistance to chemicals, weathering and UV stability. Ceramic nanoparticles dramatically increase the hardness of the coating and its resistance to peeling. The use of the coating reduces the wear of wiper pores.

The coating is used in protecting windshields and mirrors. It causes easy removal of water from the protected surface (the "invisible wiper" effect) and greatly facilitates window cleaning. The product also protects against corrosion and aggressive chemicals.

**GLASS GRAPHENE** does not change the color or translucency of glass. As a result, it does not adversely affect the performance characteristics of glass and mirrors. The coating does not screen radio waves (it does not interfere with antennas integrated into the glass). It gives a high gloss, reduces the adhesion of road grime and reduces friction between the glass and wiper blades.



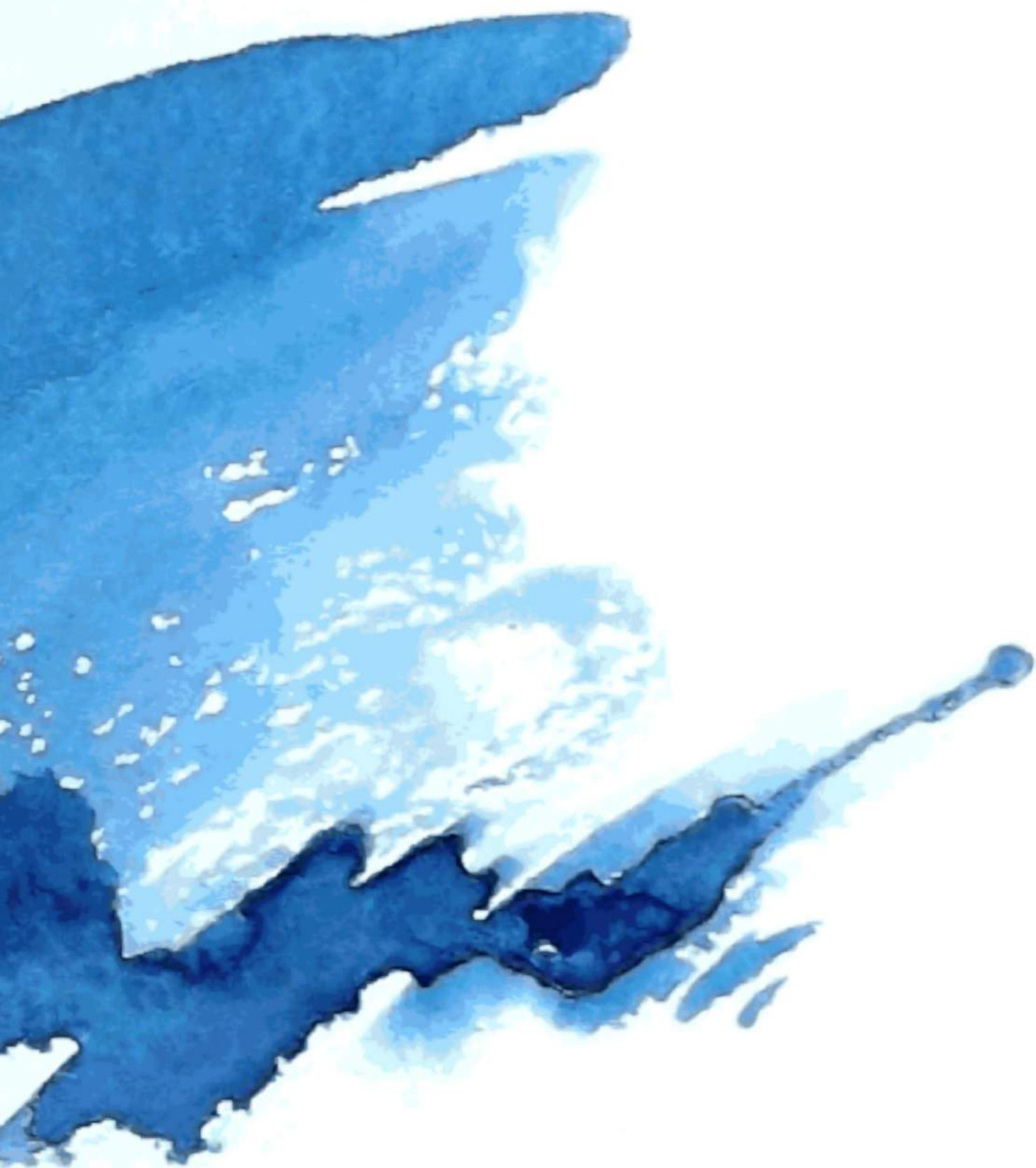
# OBSIDIAN GLASS



**OBSIDIAN GLASS** is an advanced hybrid polymer (silicate-polyurethane) coating. In contact with the surface of glass and mirrors, the polymers are chemically bonded to the substrate and mutually coupled, resulting in a dense, protective polymer network. The polymers guarantee excellent flexibility, resistance to temperature changes, aggressive chemicals, and give a superhydrophobic effect and significantly deepen the gloss. The network is enriched with ceramic nanoparticles (silicon oxide, titanium oxide), which dramatically increase the hardness of the coating and its resistance to mechanical damage and scratches. The combination of hardness and flexibility guarantees excellent performance of the coating and its durability.

The coating is used in protecting windshields and mirrors. It causes easy removal of water from the protected surface (the "invisible wiper" effect) and greatly facilitates window cleaning. The product also protects against corrosion and aggressive chemicals.

**OBSIDIAN GLASS** does not change the color or translucency of glass. As a result, it does not adversely affect the performance characteristics of windshields and mirrors. The coating does not screen radio waves (it does not interfere with antennas integrated into the glass). It gives a high gloss, reduces the adhesion of road grime and reduces friction between the glass and wiper blades.



[www.ITP-SYSTEM.pl](http://www.ITP-SYSTEM.pl)