

## COMPARING OUR COATING SYSTEMS

APPLICATION & DURATION OF PROTECTION

Buildings - Concrete + Waterproofing - 8 Years

Concrete Substrate

White Grey or Color Acrylic 1K Water-Based Primer SIX4  
60 micron 2 Layer

UVA Topcoat Transparent Glossy / Matte  
6 micron 1 Layer

If Acrylic Latex was used  
We will sand it back as smooth as possible

**To achieve the lowest cost with the highest durability:**  
Use SIX4 Acrylic Primer Color, topped with a transparent SI34 Glossy or SI44 Transparent Matte for interior or exterior Walls. This combination provides:

**Lowest Cost:** This primer, which can be applied directly to concrete or over water-based latex, is the most affordable solution on the market. The transparent SI34 or SI44 topcoat adds durability and flexibility while protecting the underlying primer—without the need for a colored topcoat.

**Enhanced Durability:** SI34 or SI44 provides an easy-to-clean surface, excellent UV resistance, chemical protection, and weatherability, with a lifespan of up to 8 years. Can be sprayed wet-on-wet to create thicker layers, which may extend the years of protection accordingly.

**Waterproofing Solution:**  
If a white SIX4 Acrylic Primer is applied as the base layer and topped with SI54 Transparent, it prevents dirt penetration. Any cracks can be easily identified and repaired, thanks to the white layer underneath.

**Energy Efficiency – Cooler Homes:**  
With a Total Solar Reflectance (TSR) of 88%, the white paint reflects sunlight,

Buildings - Concrete + Waterproofing - 16 Years

Concrete Substrate

White or Color SI21 or SI11  
60 micron 2 Layer

Transparent Glossy / Matte SI11 or SI12  
25 micron 1 layer

White, Grey or Color Acrylic 1K Water-Based Primer SIX4  
60 micron 2 Layer

If Acrylic Latex was used  
We will sand it back as smooth as possible

**Cost-Effective:** The SIX4 acrylic primer offers an affordable and compatible solution for water-based latex systems, ensuring good adhesion without the need for higher-cost primers.

**Self-Cleaning Properties:** The SI21 Or SI11 coating has a permanent non-stick surface with self-cleaning properties, preventing dirt and pollutants from bonding, which helps maintain the appearance of the surface and reduces maintenance needs.

**Aesthetic Benefits:** The SI21 creates a 3D effect within the paint layer, adding more depth and vibrancy compared to other paints, which often appear flat and lifeless. To see how this looks in real life, please click the video on the left.

**Waterproofing Solution:**  
We apply a white base layer with SI11 Transparent on top, preventing dirt penetration. Any cracks can be easily spotted and repaired due to the white layer beneath.

**Energy Efficiency – Cooler Homes:**  
With a Total Solar Reflectance (TSR) of 88%, the white paint reflects sunlight, reducing indoor temperatures and energy consumption.

Buildings - Concrete + Waterproofing - 12 Years

Concrete Substrate

White, Grey or Color Epoxy Polyamide 2K Primer SIX1  
80 micron 2 Layer

UVA Topcoat Transparent Glossy / Matte  
6 micron 1 Layer

**To achieve the lowest cost with one level up the durability ladder:**  
Use SIX1 Epoxy Polyamide Primer white, grey or tinted, topped with a transparent SI04 Glossy or SI24 Transparent Matte. This combination provides:

**Highest Quality, Lowest Price:** The tinted primer which can be placed on concrete is most affordable and durable while the transparent SI04 or SI24 layer adds durability and flexibility, while protecting the underlying primer—without the need for a colored topcoat.

**Enhanced Durability:** SI04 or SI24 offers an easy-to-clean surface excellent UV resistance, chemical protection, and weatherability, with a lifespan of up to 12 years. Can be sprayed wet-on-wet to create thicker layers, which may extend the years of protection accordingly.

**Waterproofing Solution:**  
If a white SIX1 Epoxy Polyamide Primer is applied as the base layer and topped with SI54 Transparent, it prevents dirt penetration. Any cracks can be easily identified and repaired, thanks to the white layer underneath.

**Energy Efficiency – Cooler Homes:**  
With a Total Solar Reflectance (TSR) of 88%, the white paint reflects sunlight, reducing indoor temperatures and energy consumption.

Buildings - Concrete + Waterproofing - 24 Years

Concrete Substrate

White or Color SI21 or SI11  
60 micron 2 Layer

Transparent Glossy / Matte SI11 or SI12  
25 micron 1 Layer

**Longest Durability:** The combination SI21 with and SI11/SI12 Topcoat offers unparalleled color and gloss retention against environmental damage, UV degradation, and harsh chemicals, extending the lifespan of the coating system significantly, up to 24 years. This combination optimizes both cost and performance for both initial application and long-term durability.

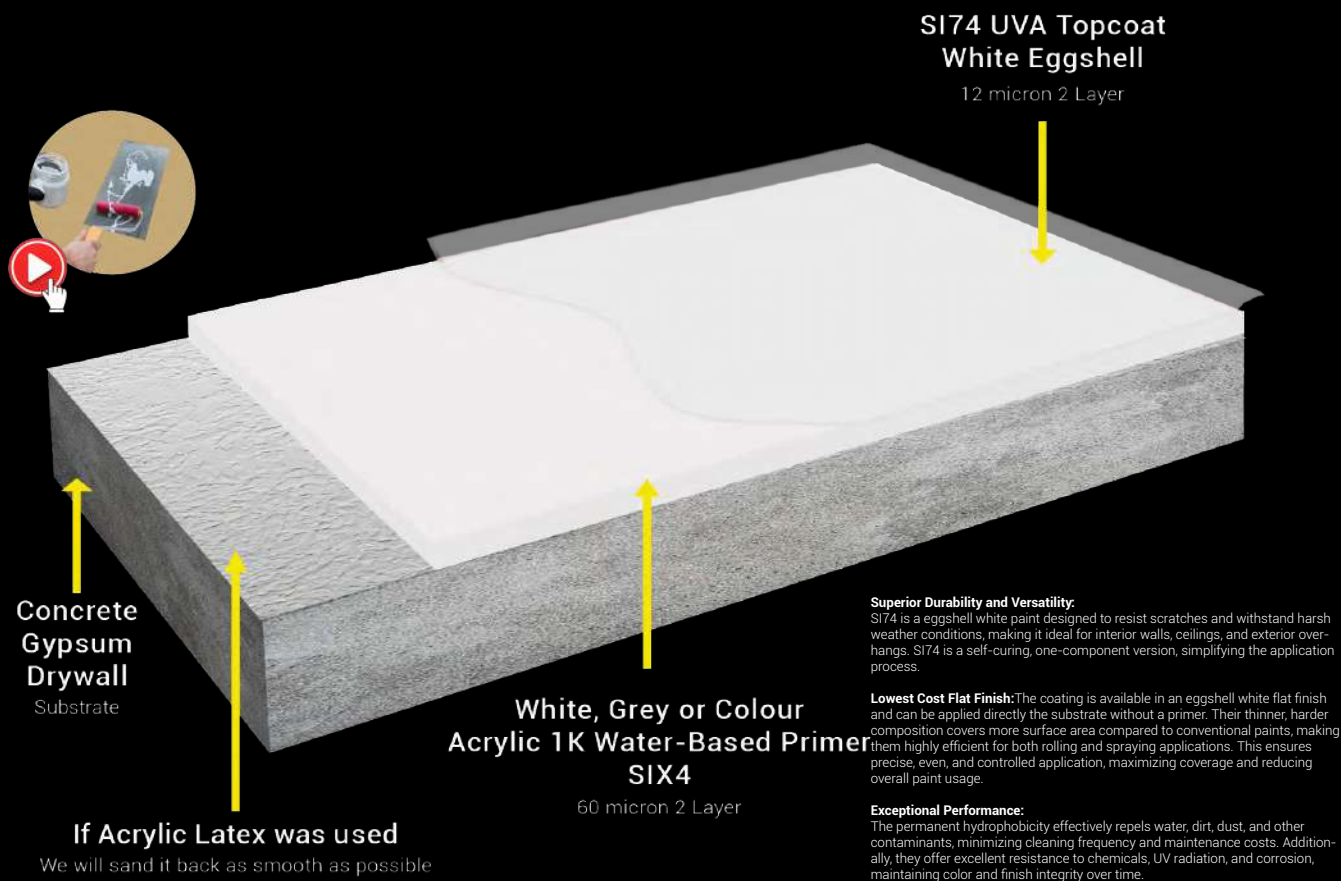
**The best results are achieved when applied directly to bare concrete.**  
As shown in our Independent Test Report EN1504-2, there was one failure observed in the adhesion pull-off test on page 10, which mentions a cohesion failure in the concrete substrate. This proves that the concrete itself broke before the paint did, confirming that the strongest bond is achieved when applied directly to the concrete rather than over an existing layer of conventional paint.

**Enhanced Protection:** The transparent SI11/SI12 topcoat provides an additional layer of protection and creates a deeper color effect (3D) of the colored midcoat underneath. It enhances the UV, water, and chemical resistance of the system while maintaining gloss or matte finishes, with a superb color and gloss retention.

**Aesthetic Benefits:** Same 3D effect.



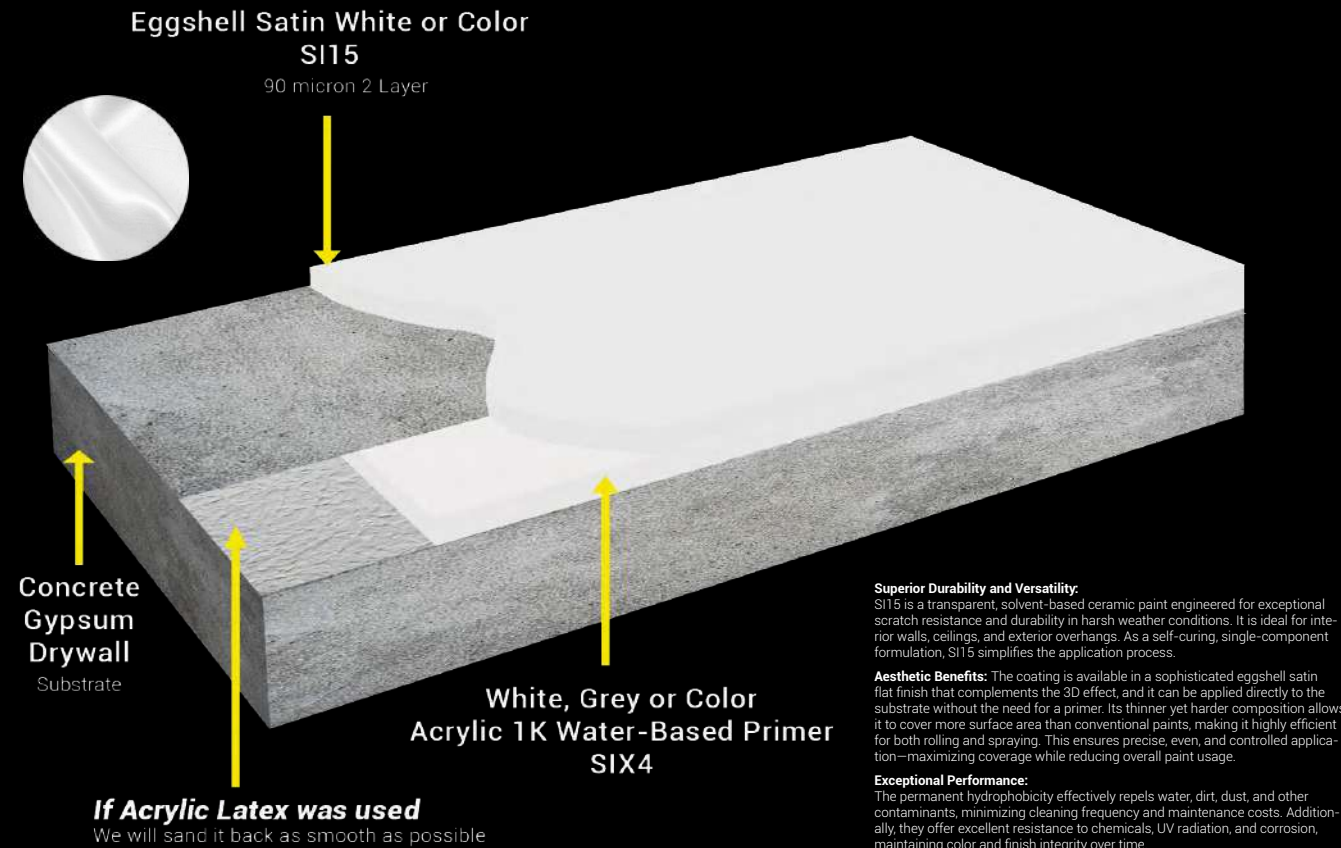
Buildings - Wall + Ceilings + Overhang - 8 Years



Buildings - Wood - 4 Years



Buildings - Ceiling + Wall - Indoor - Outdoor - 12 Years




Buildings - Wood - 8 Years





Buildings - Marble - Protect - Renew - AntiSlip - 8 Years



UVA Topcoat Transparent  
Glossy / Matte / AntiSlip  
SI04, SI24 or SI74  
6 micron 1 Layer

Marble  
Substrate

**Renew or Protect Marble at the lowest cost with the highest durability:**  
Using SI04 Glossy, SI24 Transparent Matte or SI74 Transparent AntiSlip

**Lowest Cost:** Spray or wipe a self levelling transparent SI04 or SI24 layer on top. Or choose for SI74 AntiSlip this one can only be sprayed.

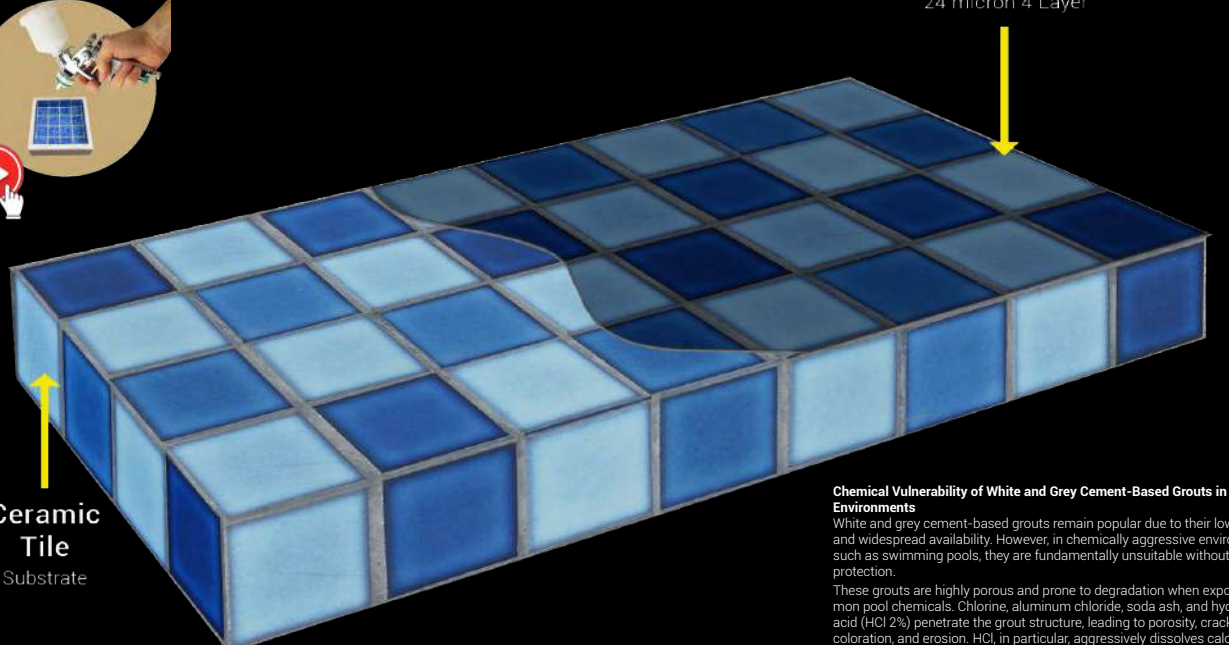
**Enhanced Durability:** SI04, SI24 and SI74 offers provides an easy-to-clean surface excellent UV resistance, chemical protection, and weatherability, with a lifespan of up to 8 years.

These coatings are specifically engineered to resist all etching chemicals, including lime, making them exceptionally suitable for marble, granite, laminated tables, and varnished wood countertops.

This advanced formula offers unparalleled protection, ensuring that even the most delicate surfaces retain their pristine condition over time and can be sprayed wet-on-wet to create thicker layers, which may extend the years of protection accordingly.

**Aesthetic Benefits:** The hydrophobic topcoats maintain glossy or matte finishes and protect against dirt and pollutants penetration.

Buildings - Waterproofing - Swimming Pool - 12 Years



UVA Topcoat Transparent  
Glossy / Matte / AntiSlip  
SI54, SI64 or SI74  
24 micron 4 Layer

Ceramic  
Tile  
Substrate

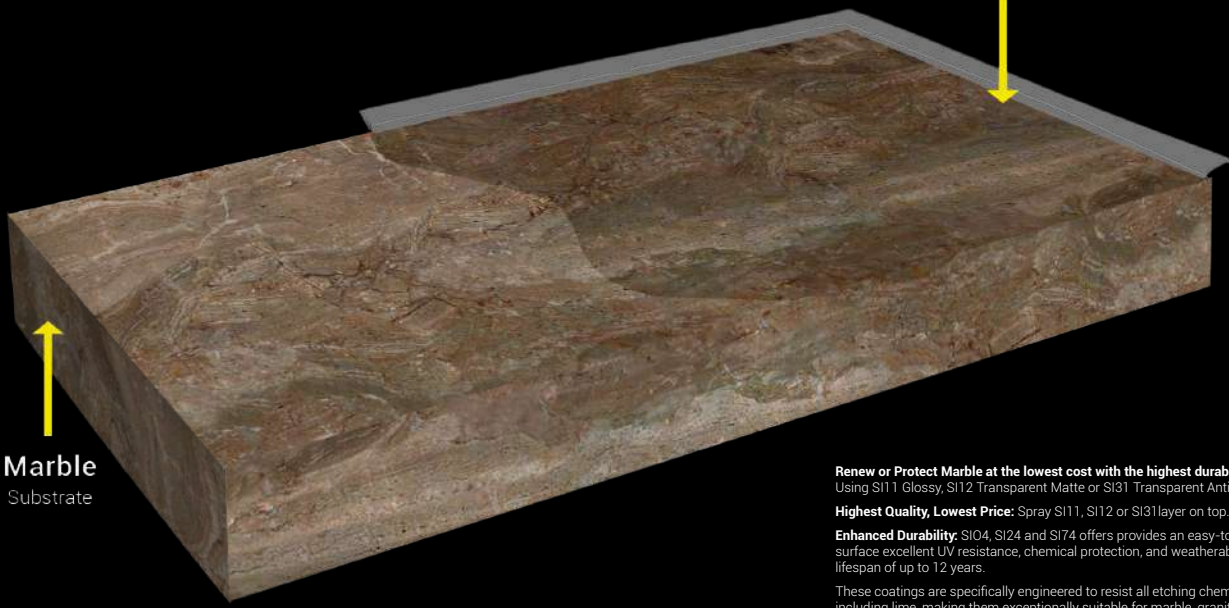
**Chemical Vulnerability of White and Grey Cement-Based Grouts in Pool Environments**

White and grey cement-based grouts remain popular due to their low cost and widespread availability. However, in chemically aggressive environments such as swimming pools, they are fundamentally unsuitable without additional protection.

These grouts are highly porous and prone to degradation when exposed to common pool chemicals. Chlorine, aluminum chloride, soda ash, and hydrochloric acid (HCl 2%) penetrate the grout structure, leading to porosity, cracking, discoloration, and erosion. HCl, in particular, aggressively dissolves calcium-based compounds, rapidly compromising the structural integrity of the grout. While grey cement grout may offer slightly improved resistance due to its mineral composition, it remains chemically vulnerable over time.

For long-term durability and chemical resistance in pool applications, the recommended solution is to apply SI54 or SI64 over both tile and grout. These coatings form a robust, hydrophobic barrier that shields the substrate from chemical exposure, preserving structural performance and appearance. For areas requiring slip resistance, such as pool surrounds or steps, use SI74 AntiSlip for enhanced safety without compromising protection.

Buildings - Marble - Protect - Renew - AntiSlip - 12 Years



Topcoat Transparent  
Glossy / Matte / Antislip  
SI11, SI12 or SI31  
25 micron 1 Layer

Marble  
Substrate

**Renew or Protect Marble at the lowest cost with the highest durability:**  
Using SI11 Glossy, SI12 Transparent Matte or SI31 Transparent AntiSlip

**Highest Quality, Lowest Price:** Spray SI11, SI12 or SI31 layer on top.

**Enhanced Durability:** SI04, SI24 and SI74 offers provides an easy-to-clean surface excellent UV resistance, chemical protection, and weatherability, with a lifespan of up to 12 years.

These coatings are specifically engineered to resist all etching chemicals, including lime, making them exceptionally suitable for marble, granite, laminated tables, and varnished wood countertops.

This advanced formula offers unparalleled protection, ensuring that even the most delicate surfaces retain their pristine condition over time and can be sprayed wet-on-wet to create thicker layers, which may extend the years of protection accordingly.

**Aesthetic Benefits:** The hydrophobic topcoats maintain glossy or matte finishes and protect against dirt and pollutants penetration.

Buildings - Waterproofing - Renew Tiles - 12 Years



UVA Topcoat Transparent  
Glossy / Matte / AntiSlip  
SI04, SI24 or SI74  
12 micron 2 Layer

Ceramic  
Tile  
Substrate

**Chemical Degradation of White and Grey Cement-Based Grout in Bathroom Floors**

White and grey cement-based grouts are commonly used in bathrooms due to their low cost and availability. However, they are highly prone to chemical damage over time.

Household cleaners like bleach, acidic descalers, and ammonia-based products can make grout porous, brittle, and prone to cracking. These chemicals also strip tile glazing, reducing shine and increasing water absorption and staining. Over time, this leads to leaks, mold, and structural damage.

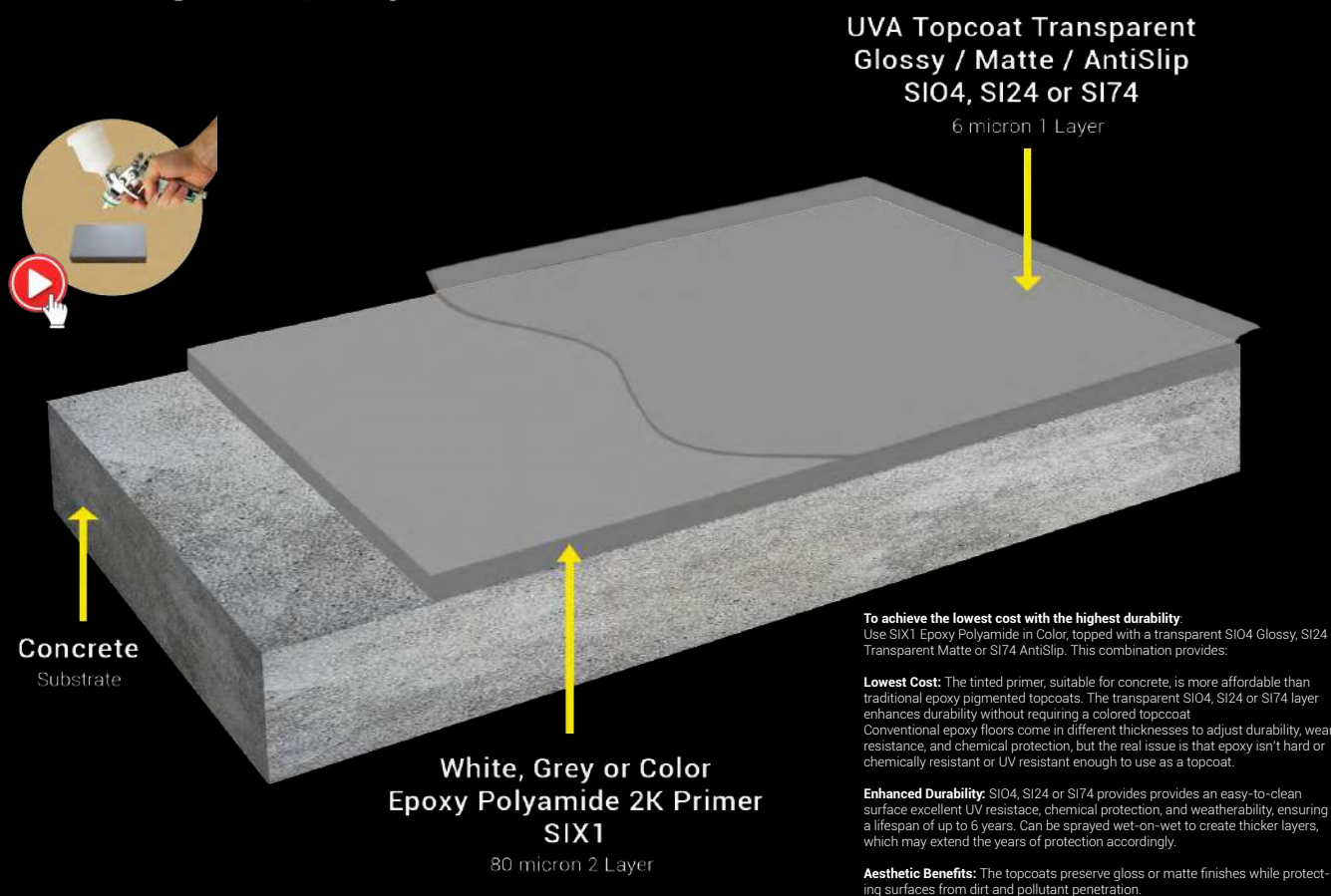
While grey grout offers slightly better resistance, it still remains vulnerable to chemical attack.

The best solution is to apply SI04 or SI24 over both tile and grout. This protective layer shields surfaces from harsh cleaners and moisture. It also helps restore tile gloss and improves resistance to wear and chemicals.

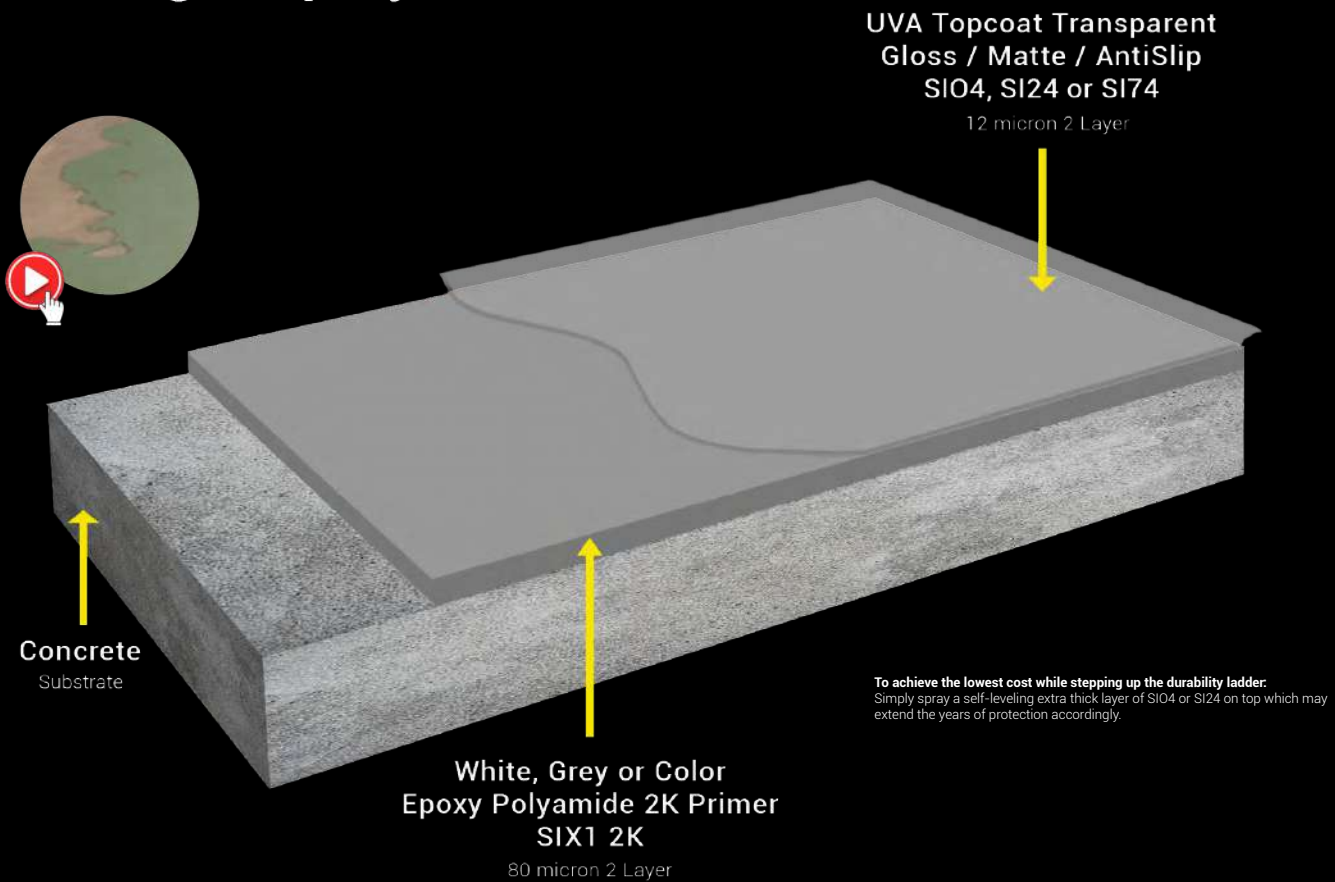
For slippery areas, use SI74 AntiSlip to enhance safety without compromising protection.



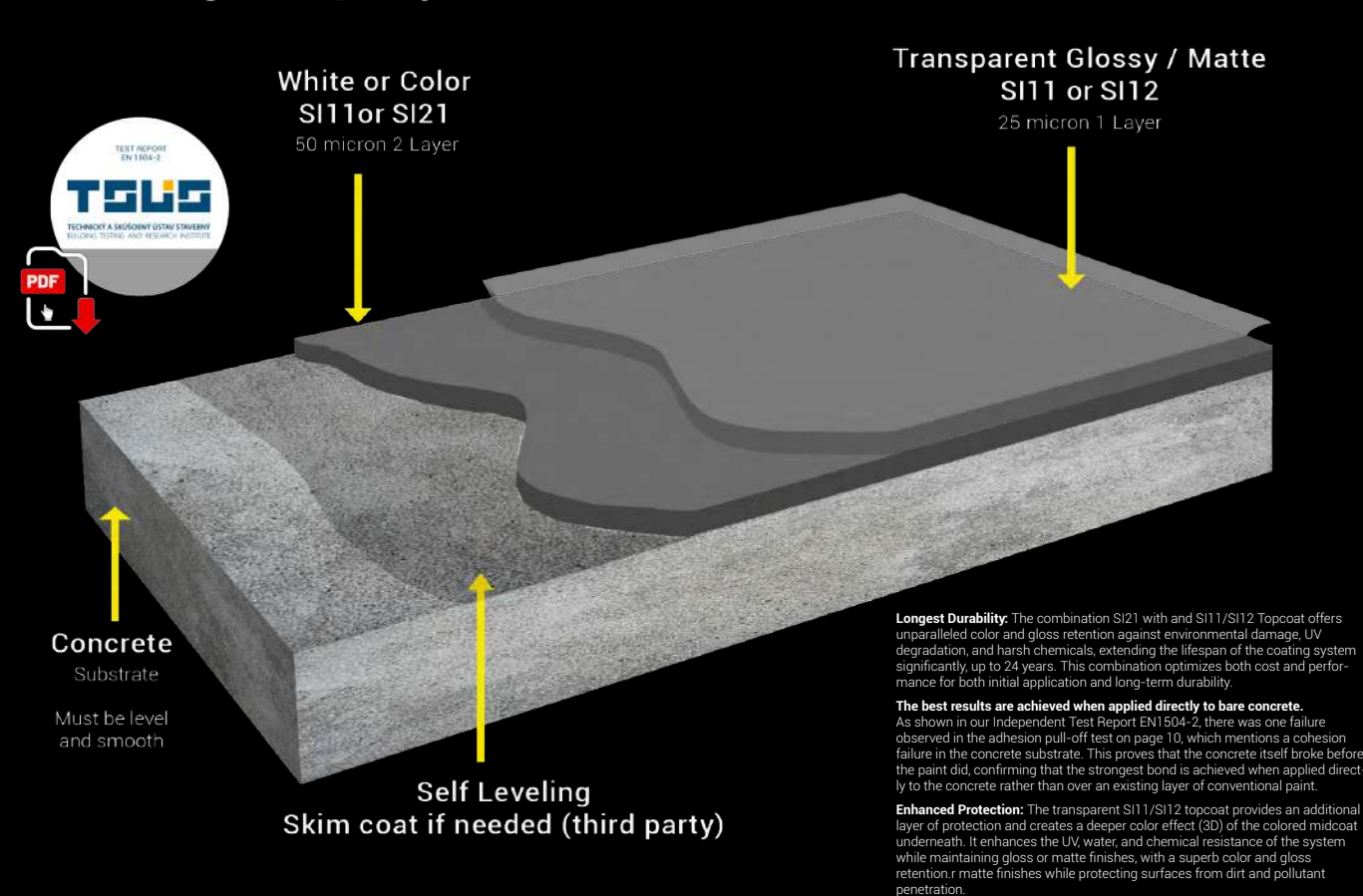
Buildings - Epoxy - Floor - 6 Years



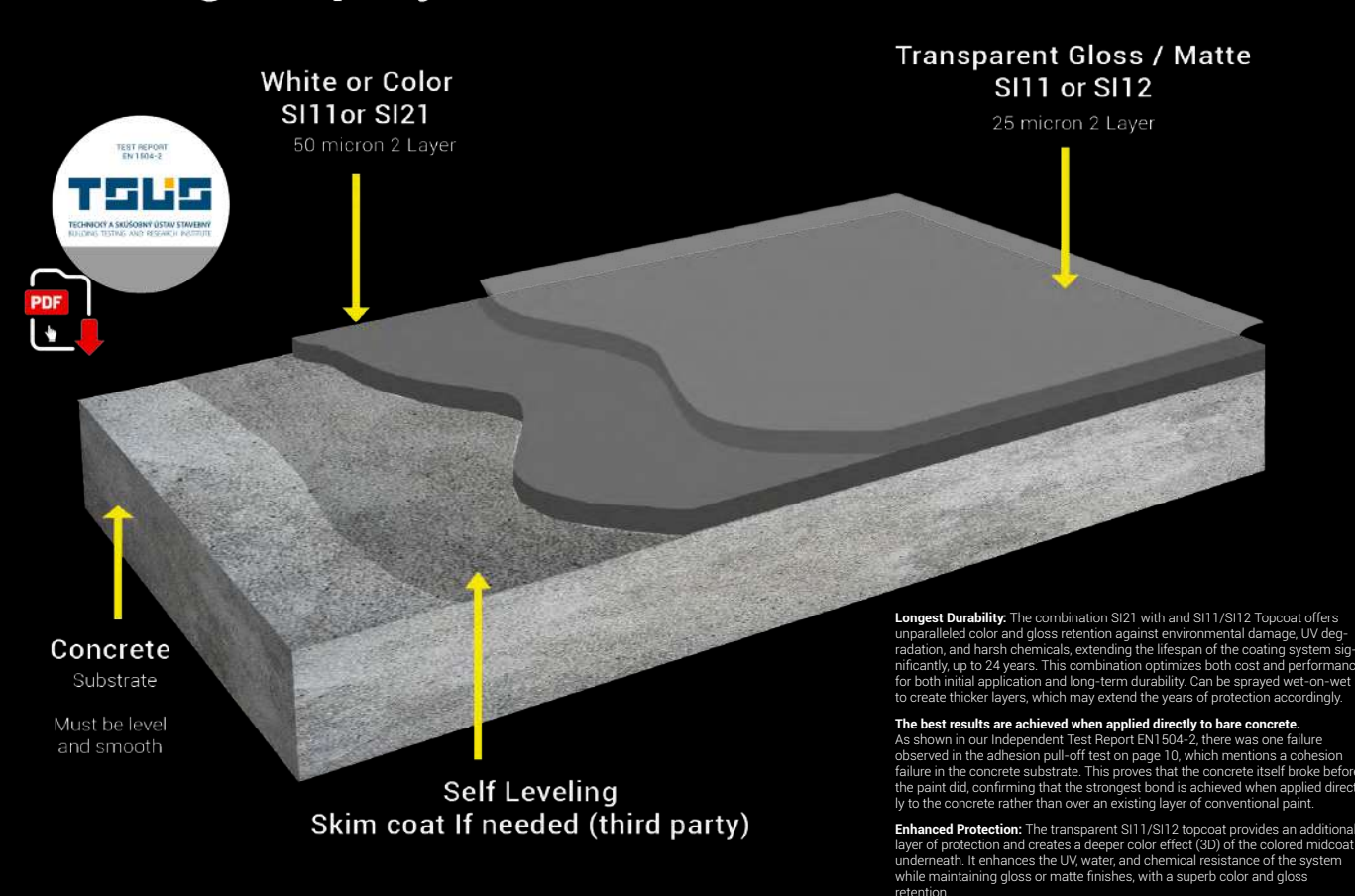
Buildings - Epoxy - Floor - 8 Years



Buildings - Epoxy - Floor- 12 Years



Buildings - Epoxy - Floor- 16 Years





Buildings - Stone - Floor - 8 Years

Diagram illustrating the coating system for Stone Substrate. The system consists of a Stone Substrate, a Primer 2K Clear SIX3 (1 layer), and a UVA Topcoat Transparent Glossy / Matte / AntiSlip (6 micron 1 Layer). The primer is applied to the stone substrate to eliminate absorption. The topcoat is applied over the primer.

**UVA Topcoat Transparent Glossy / Matte / AntiSlip**  
SI04, SI24 or SI74  
6 micron 1 Layer

**Primer 2K Clear SIX3**  
1 layer to eliminate absorption.

**Stone Substrate**

**To achieve the lowest cost with the highest durability:**  
Use SIX3 PU Transparent Wood-Filler, topped with a transparent SI04 Gloss or SI24 Transparent Matte. This combination provides:

**Lowest Cost:** The filler will make sure that the transparent SI04 or SI24 layer forms a protective layer on top.

**Enhanced Durability:** SI04 or SI24 provides an easy-to-clean surface, excellent UV resistance, chemical protection, and weatherability, with a lifespan of up to 4 years. Additionally, the coating prevents termites from penetrating the wood. Can be sprayed wet-on-wet to create thicker layers, which may extend the years of protection accordingly.

**Aesthetic Benefits:** The topcoats maintain gloss or matte finishes and protect against dirt and pollutants penetration.

Marine - Steel - 4 Years

Diagram illustrating the coating system for Steel / Aluminum Substrate. The system consists of a Steel / Aluminum Substrate, a White, Grey or Color Epoxy Polyamide 2K Primer SIX1 (80 micron 2 Layer), and a UVA Topcoat Transparent Glossy / Matte / AntiSlip (6 micron 1 Layer). The primer is applied to the steel substrate. The topcoat is applied over the primer.

**UVA Topcoat Transparent Glossy / Matte / AntiSlip**  
SI04, SI24 or SI74  
6 micron 1 Layer

**White, Grey or Color Epoxy Polyamide 2K Primer SIX1**  
80 micron 2 Layer

**Steel / Aluminum Substrate**

**To achieve the lowest cost with the highest durability:**  
Use SIX1 Epoxy Polyamide in Color, topped with a transparent SI04 Glossy, SI24 Transparent Matte, or SI74 AntiSlip. This combination offers:

**Lowest Cost:** The tinted primer, suitable for steel, is more affordable than traditional pigmented topcoats. The transparent SI04, SI24, or SI74 layer enhances durability without requiring a colored basecoat.

**Enhanced Durability:** SI04, SI24, or SI74 provides an easy-to-clean surface, excellent UV resistance, chemical protection, and weatherability—with superb resistance to salt water, making it ideal for coastal or corrosive environments. The system ensures a lifespan of up to 4 years and can be sprayed wet-on-wet to create thicker layers, potentially extending the duration of protection.

**Aesthetic Benefits:** These topcoats preserve gloss or matte finishes while protecting surfaces from dirt and pollutant penetration.

Buildings - Stone - Floor - 16 Years

Diagram illustrating the coating system for Stone Substrate. The system consists of a Stone Substrate, a Transparent Glossy / Matte / Antislip / Flat Matte (50 micron 2 Layers), and a UVA Topcoat Transparent Glossy / Matte / Antislip / Flat Matte (50 micron 2 Layers). The topcoat is applied over the primer.

**Transparent Glossy / Matte / Antislip / Flat Matte**  
SI11 / SI12 / SI31 or SI35  
50 micron 2 Layers

**Stone Substrate**

**Cost-Effective:** The most cost-effective solution for stone protection is SI11, SI12, SI31 Antislip, or SI35 Flat (Zero Gloss).

**Longest Durability:** These transparent topcoats deliver exceptional color and gloss retention against UV, chemicals, and environmental damage, extending the lifespan up to 25 years. For even longer durability, simply apply an additional layer of SI11 or SI12 to renew protection without needing a full recoating.

**Enhanced Protection:** The transparent topcoats enhance UV, water, and chemical resistance, preserving gloss or matte finishes while protecting the surface. In contrast, transparent Acrylic, PU, or (AM) Silicone coatings are not a viable solution due to their weak UV and chemical resistance, typically lasting only between 4 months and one year.

**Self-Cleaning Properties:** These topcoats feature a permanent non-stick, self-cleaning surface that prevents dirt and pollutants from bonding, maintaining the appearance and reducing maintenance needs.

Marine - Steel - 8 Years

Diagram illustrating the coating system for Steel / Aluminum Substrate. The system consists of a Steel / Aluminum Substrate, a White, Grey or Color Epoxy Polyamide 2K Primer SIX1 (80 micron 2 Layer), and a Transparent Glossy / Matte (25 micron 1 Layer). The primer is applied to the steel substrate. The topcoat is applied over the primer.

**Transparent Glossy / Matte**  
SI11 or SI12  
25 micron 1 Layer

**White, Grey or Color Epoxy Polyamide 2K Primer SIX1**  
80 micron 2 Layer

**Steel / Aluminum Substrate**

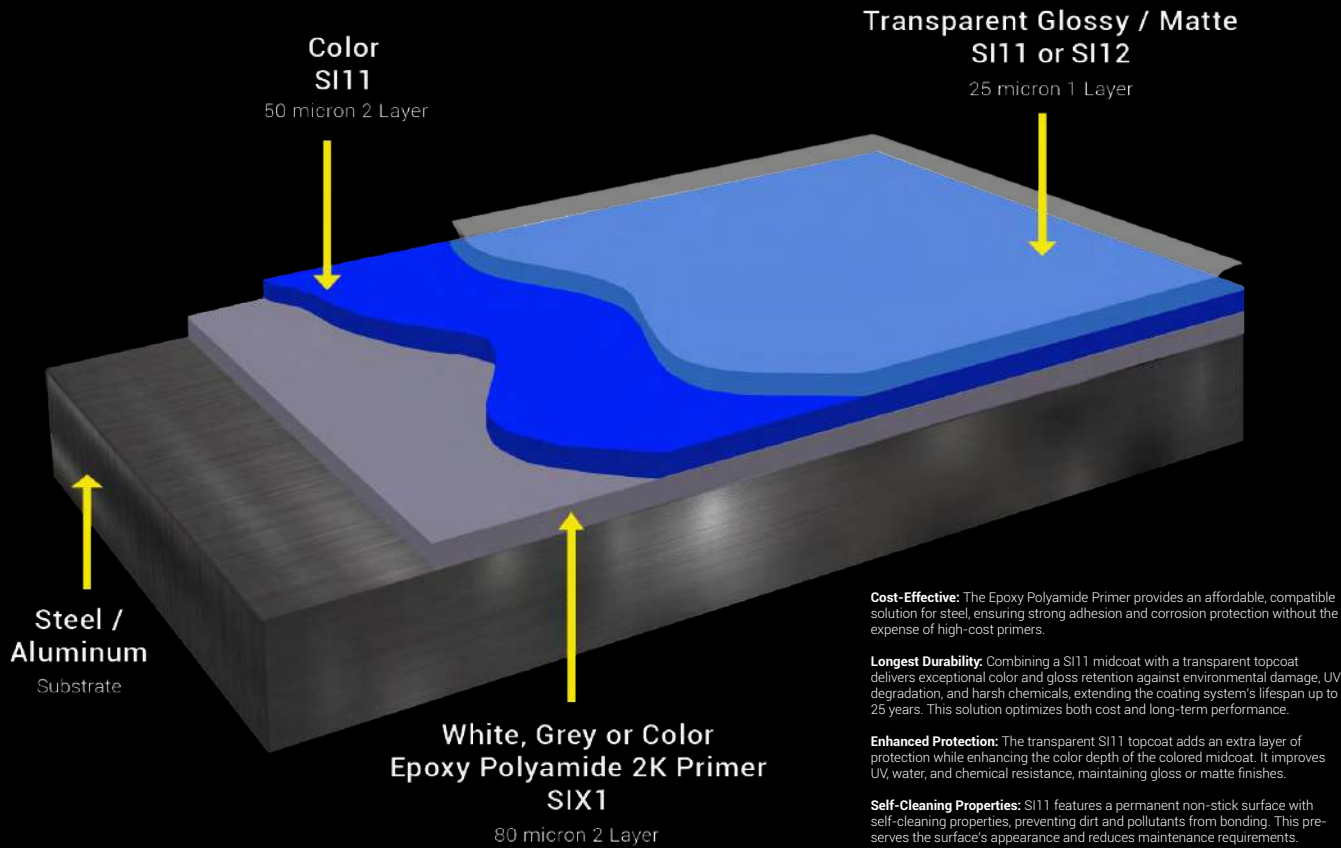
**To achieve the lowest cost with going one level up the durability ladder:**  
Use SIX1 Epoxy Polyamide Primer White or in Color, topped with a transparent SI11 Gloss or SI12 Transparent Matte.

**This combination provides:** Lowest Cost: The tinted primer which can be placed on Steel is more affordable than any other pigmented topcoats, while the transparent SI11 or SI12 layer adds durability without the need for a colored base.

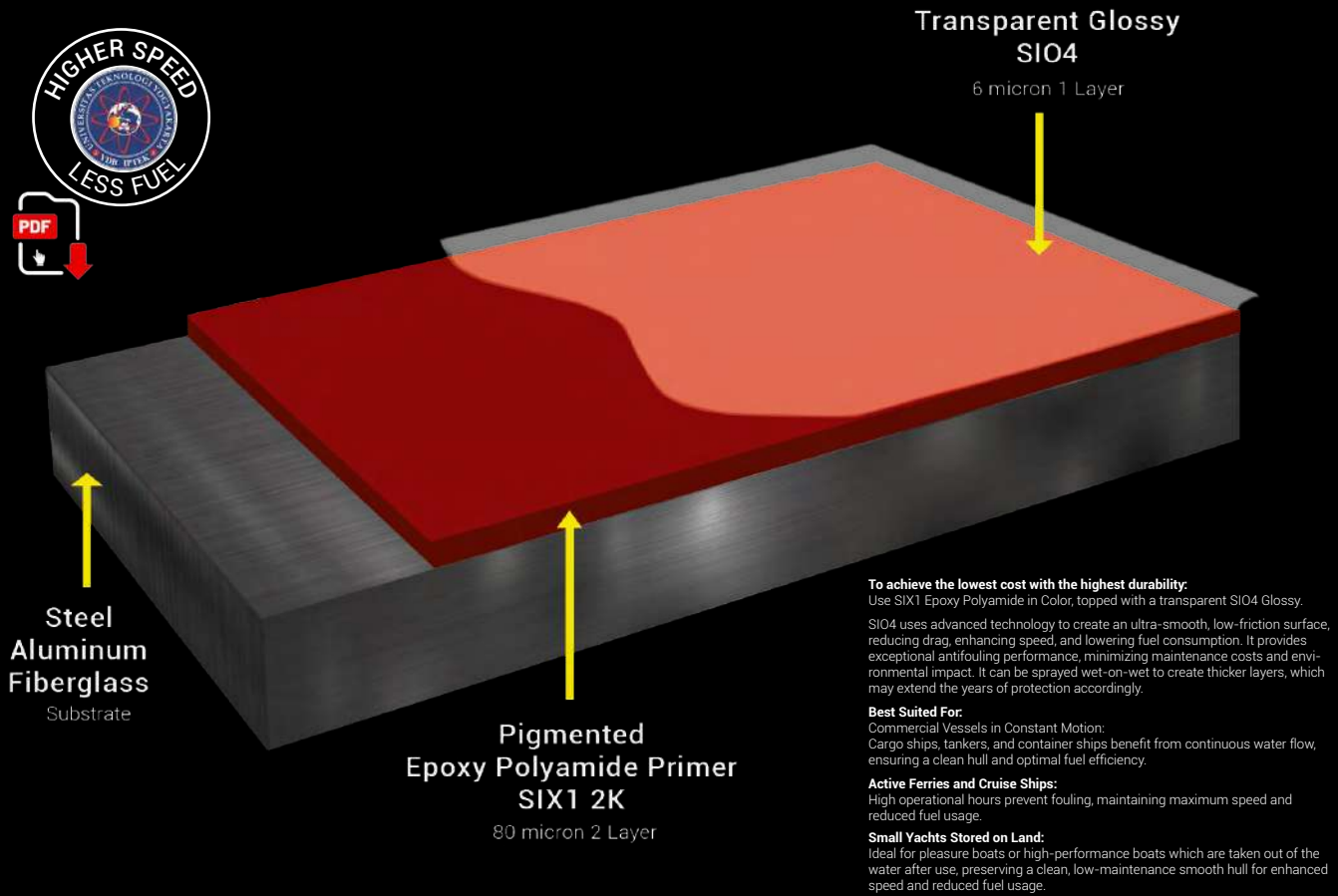
**Enhanced Durability:** SI11 or SI12 offers provides an easy-to-clean surface, superb UV resistance, chemical protection, and weather-ability, with a lifespan of up to 12 years. Can be sprayed wet-on-wet to create thicker layers, which may extend the years of protection accordingly.

**Aesthetic Benefits:** The topcoats maintain gloss or matte finishes and protect against dirt and pollutants penetration.

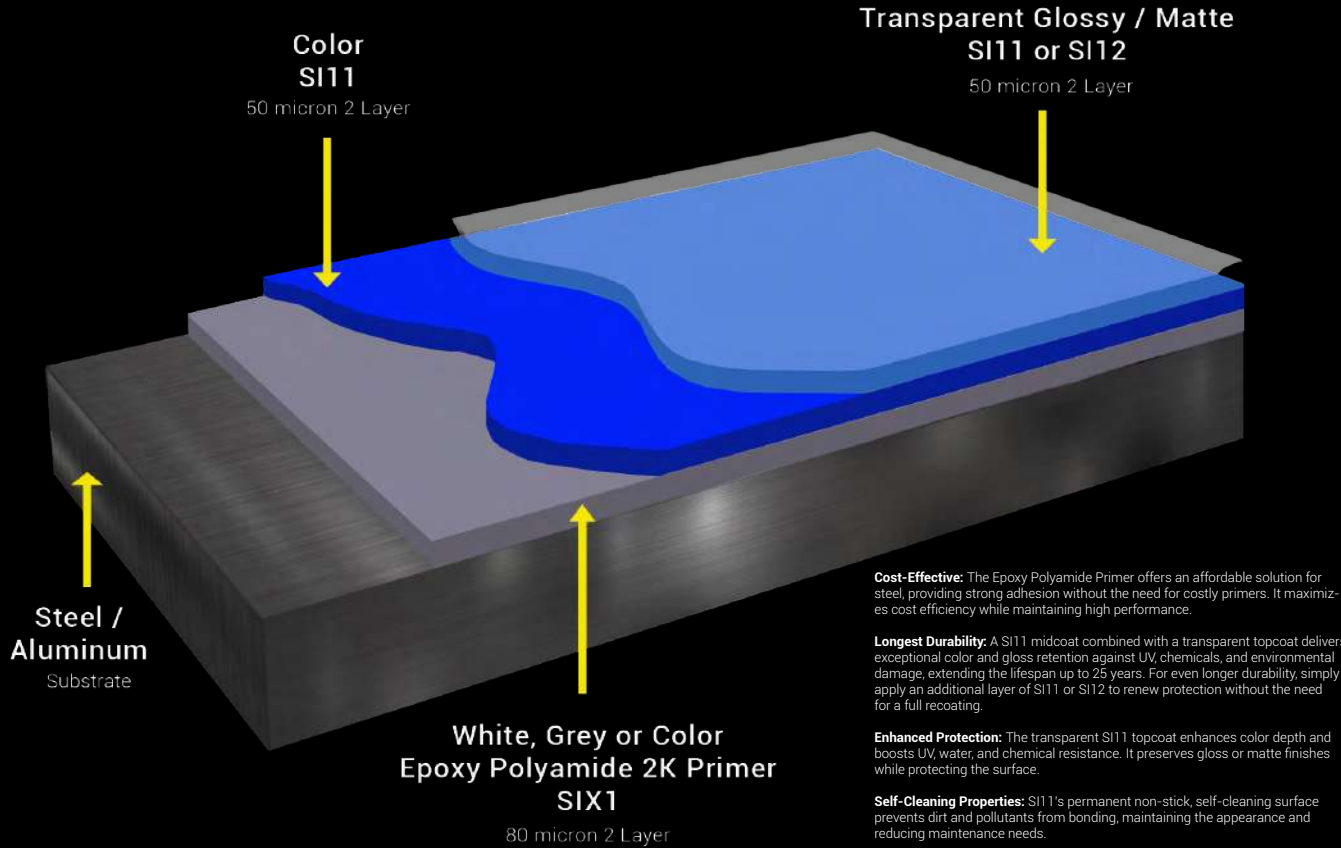
Marine - Steel - 12 Years



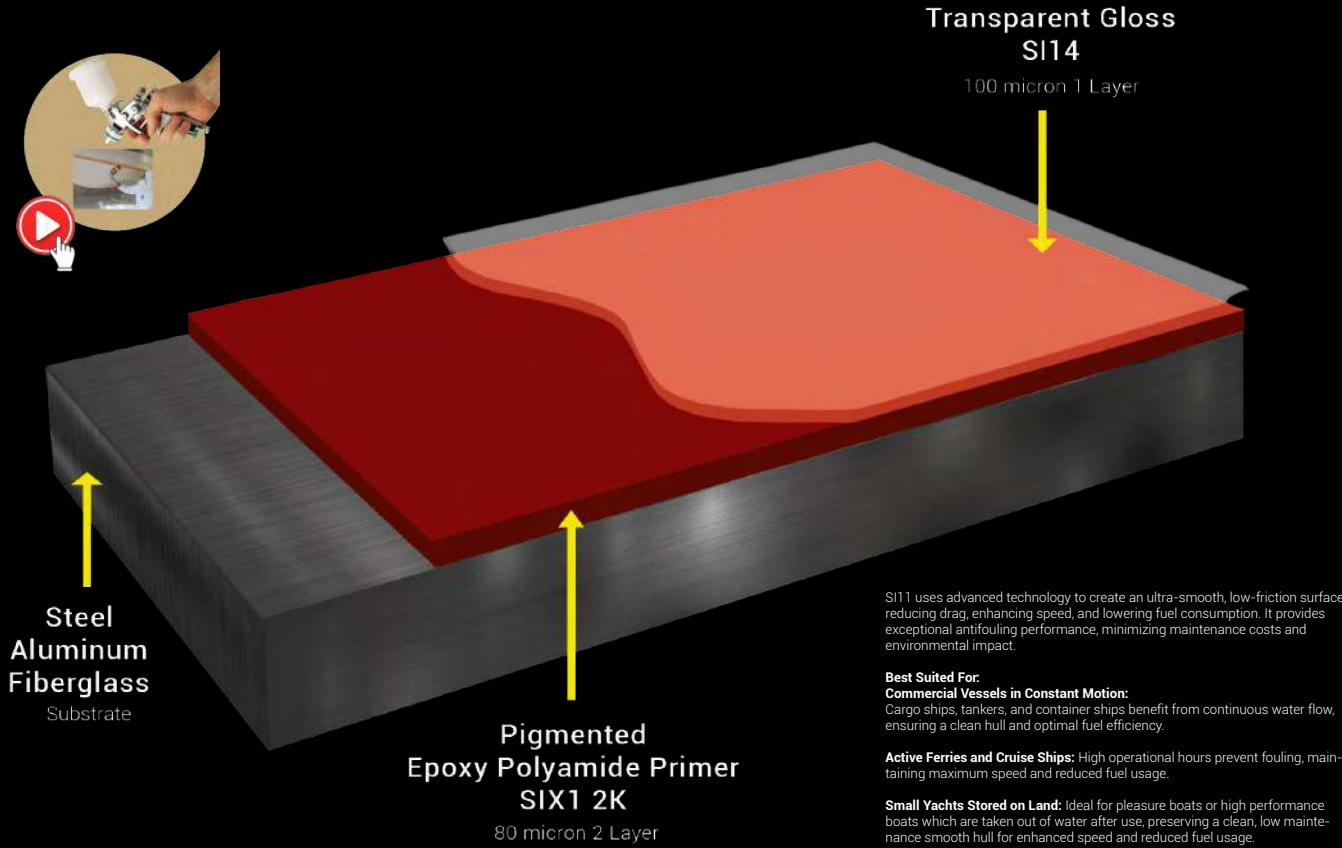
Marine - Antifouling - 4 Years



Marine - Steel - 16 Years

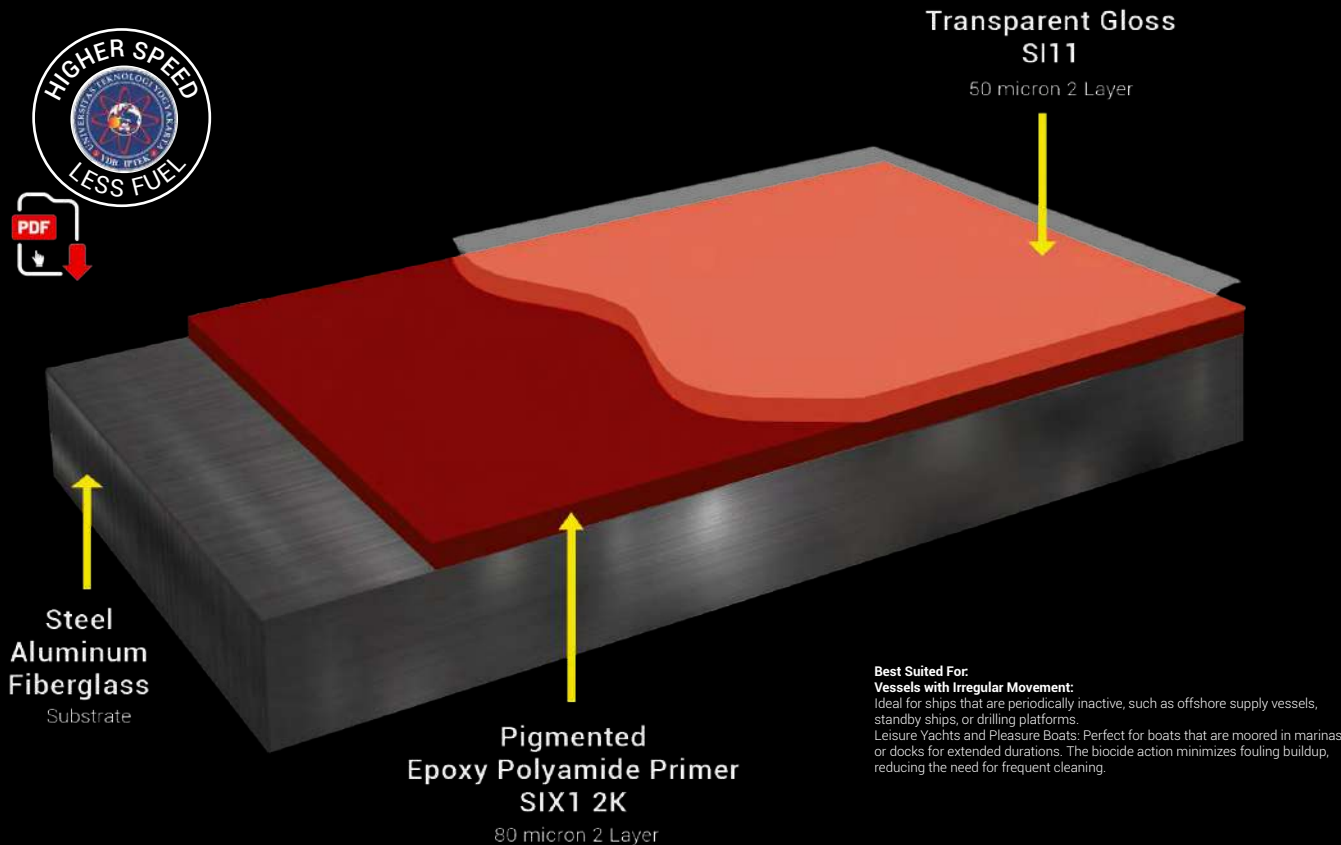


Marine - Antifouling - Biocide - Invisible Hull - 4 Years

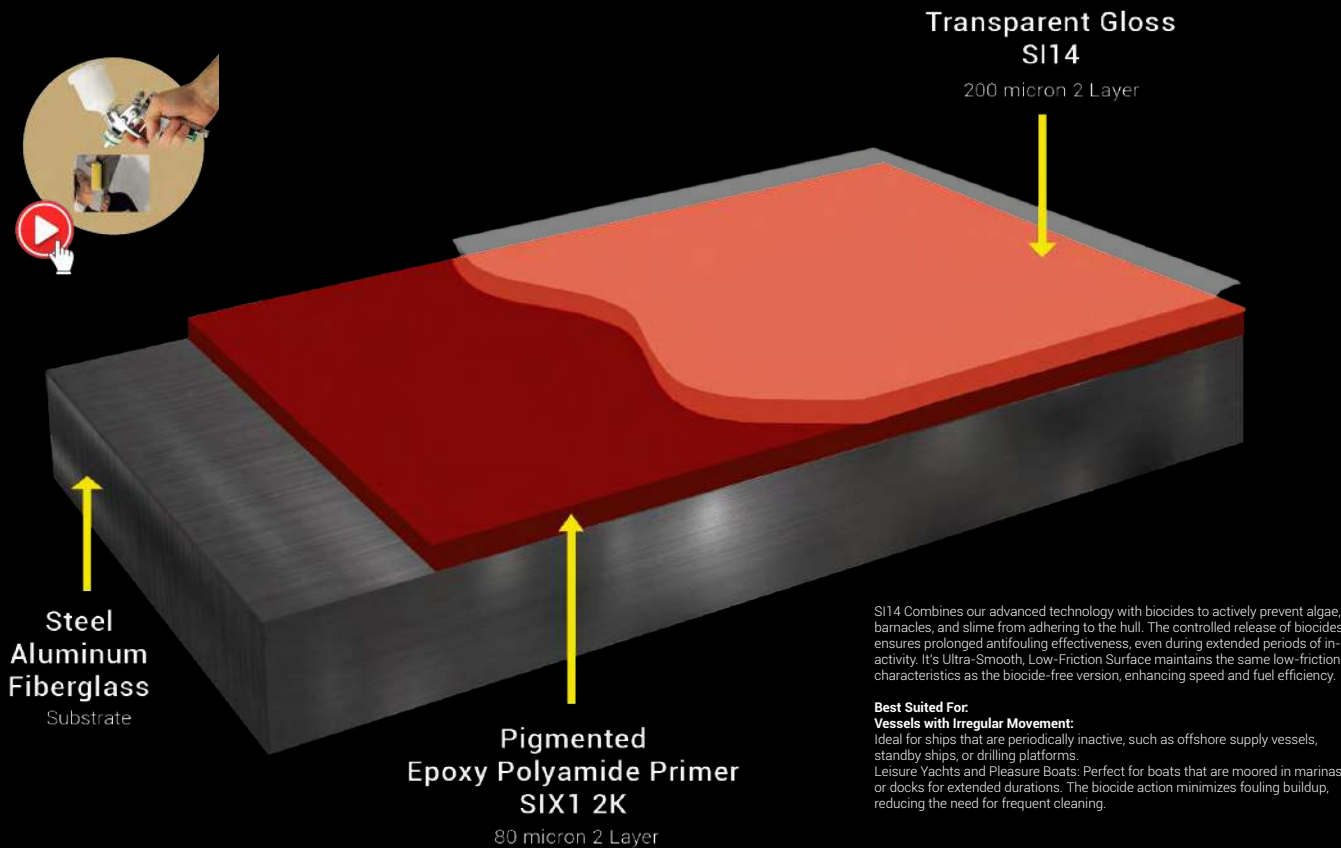




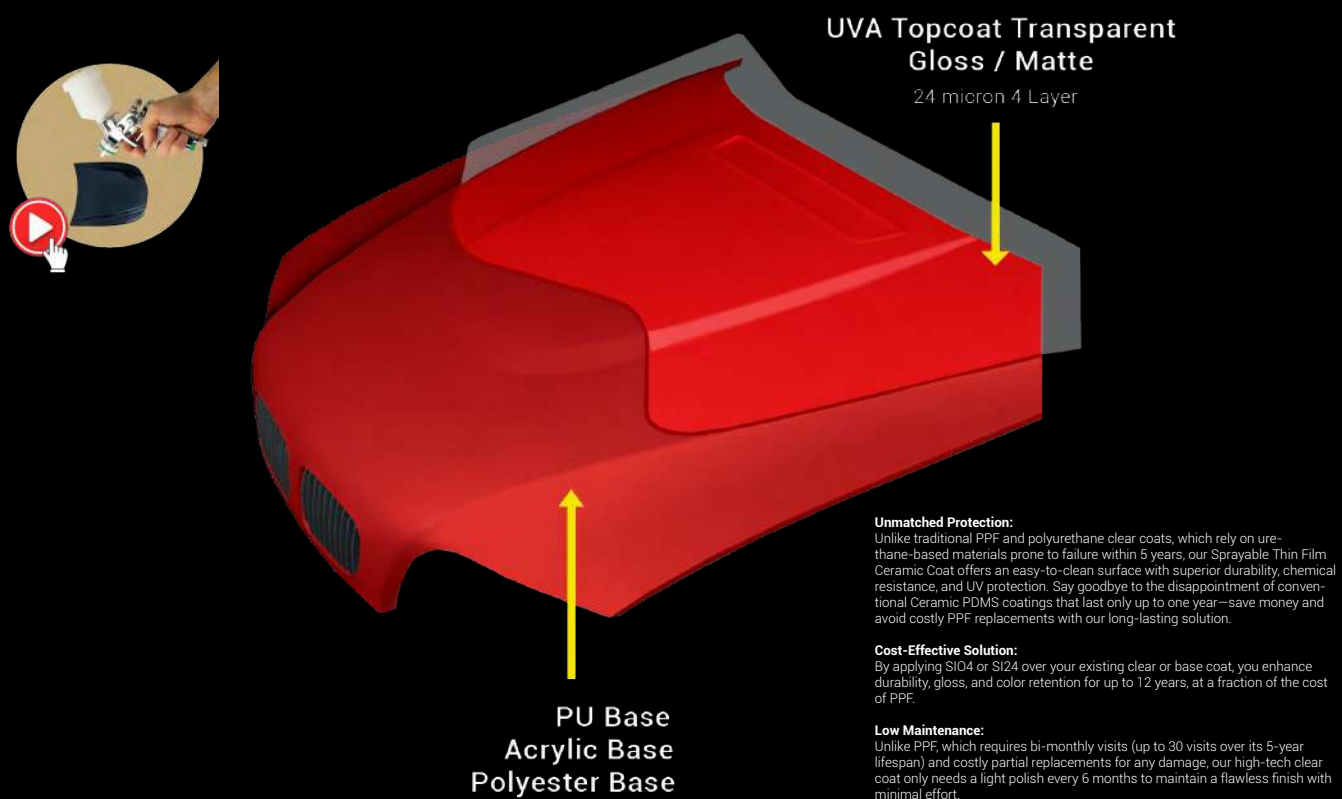
Marine - Antifouling - 8 Years



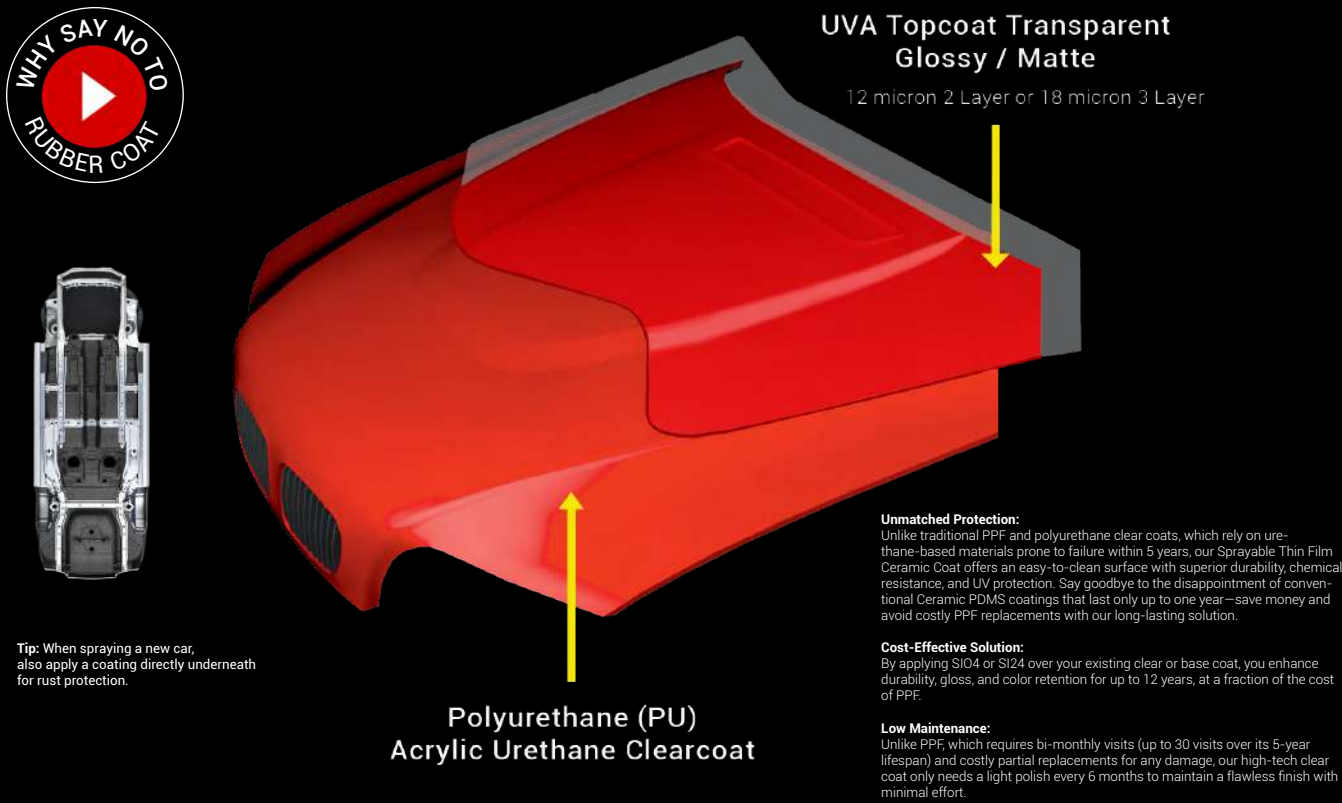
Marine - Antifouling - Biocide - Invisible Hull - 8 Years



Automotive - Topcoat on Basecoat - 12 Years



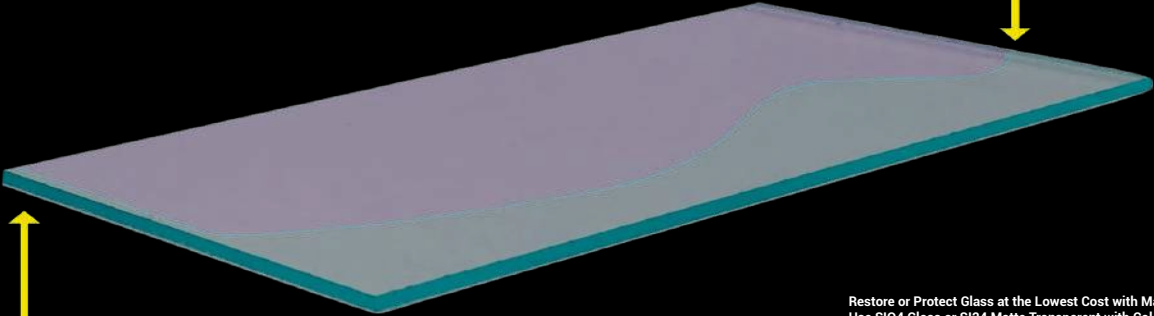
Automotive - Topcoat on Clear Coat - 12 Years





Buildings - Glass - Protect - Renew - 8 Years

UVA Topcoat Transparent  
Glossy / Matte  
SiO4 or Si24  
1 micron 1 Layer



Glass  
PVC  
PC  
PMMA  
Substrate

Restore or Protect Glass at the Lowest Cost with Maximum Durability  
Use SiO4 Gloss or Si24 Matte Transparent with Colorant Opaque or Trans-  
parent

**Lowest Cost:**  
Simply spray SiO4 or Si24—our self-leveling, transparent coating—directly onto  
the glass, or other surfaces for fast and efficient application.


**Long-Lasting Protection:**  
SiO4/Si24 resists UV, harsh chemicals, and weather for up to 8 years. It can be  
applied wet-on-wet to build thicker layers for even greater durability.

**Preserved Beauty:**  
The hydrophobic surface maintains a clean, glossy or matte finish while repelling  
dirt, moisture, and pollutants.

**Customizable Design:**  
Can be tinted in RAL opaque or super-transparent colors, adding both style and  
privacy—perfect for architectural or decorative applications.

Buildings - Stainless Steel - Protect - Renew - 8 Years

UVA Topcoat Transparent  
Glossy / Matte  
SiO4 or Si24  
6 micron 1 Layer



Stainless  
Steel  
Alu  
Substrate

Upgrade Stainless Steel Surfaces with Invisible, Long-Lasting Protection  
Use SiO4 Gloss or Si24 Matte Transparent Coating

**Preserve Appearance, Eliminate Maintenance Hassles:**  
SiO4 or Si24 forms a thin, durable layer that protects stainless steel from  
fingerprints, stains, and smudges—keeping surfaces cleaner for longer with  
minimal upkeep.

**Industrial-Grade Durability:**  
Resists corrosion, oxidation, UV exposure, and cleaning chemicals for up to  
8 years—perfect for kitchens, elevators, escalators, architectural panels, and  
high-touch public areas.

**Maintains Original Look:**  
Choose gloss to enhance shine or matte for a more understated finish—without  
altering the look or feel of the stainless steel itself. The hydrophobic coating  
repels water, grease, and dirt.

**Optional Tinting for Function or Design:**  
Can be colorized in super-transparent or RAL opaque shades for aesthetic  
branding, anti-glare effects, or added privacy—ideal for corporate interiors,  
high-traffic environments, or hospitality design.

Buildings - Porcelain - Protect - Renew - 8 Years

UVA Topcoat Transparent  
Glossy / Matte / AntiSlip  
SiO4 or Si24  
6 micron 1 Layer



Porcelain  
Melamine  
Substrate

Protect or Refurbish Porcelain Surfaces with Lasting Results  
Use SiO4 Gloss or Si24 Matte Transparent Coating

**Cost-Effective Restoration:**  
Spray SiO4 or Si24 directly onto porcelain sinks, toilets, or bathtubs to renew  
surfaces without replacement—saving time and cost.

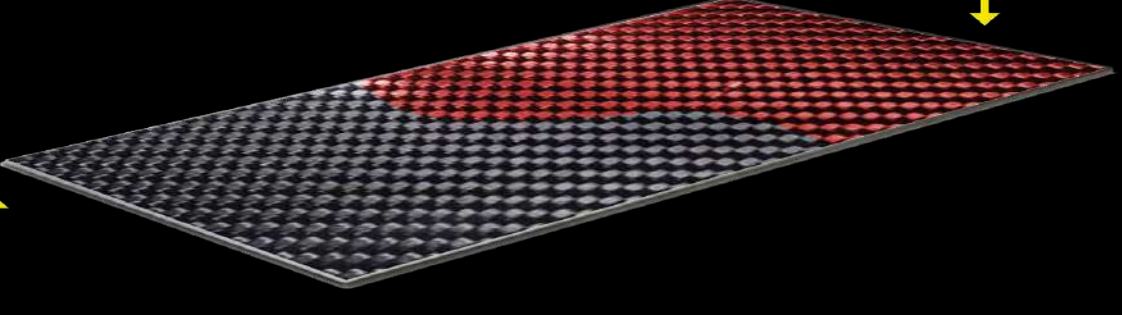
**Long-Term Protection:**  
Resistant to water, cleaning chemicals, and everyday wear, SiO4/Si24 offers  
durable protection that lasts up to 8 years. Apply wet-on-wet to build stronger,  
longer-lasting layers.

**Maintains Clean Finish:**  
This hydrophobic coating resists stains, lime buildup, and discoloration—keeping  
glossy or matte surfaces easy to clean and looking like new.

**Style Flexibility:**  
Available in clear, RAL opaque, or super-transparent tints, it offers design  
freedom for both subtle enhancements and bold custom looks—ideal for modern  
interiors or hospitality environments.

Buildings - Carbon Fibre - Protect - Renew - 8 Years

UVA Topcoat Transparent  
Glossy / Matte  
SiO4 or Si24  
6 micron 1 Layer



Carbon  
fibre  
Substrate

Protect and Enhance Carbon Fiber with Ultra-Thin, High-Performance Coating  
Use SiO4 Gloss or Si24 Matte Transparent Coating

**Lightweight Protection:**  
SiO4/Si24 adds a tough, transparent barrier without compromising the weight  
advantage of carbon fiber—ideal for high-performance parts.

**Extreme Durability:**  
Engineered to resist UV, chemicals, moisture, and abrasion, this coating protects  
carbon fiber from yellowing, fading, and wear for up to 8 years. Apply wet-on-wet  
to build extra thickness where needed.

**Preserves Carbon Aesthetics:**  
Choose between gloss or matte finishes to maintain or elevate the visual appeal  
of the carbon weave. Hydrophobic properties help repel dirt, oil, and grime—  
making maintenance effortless.



HVLP Spray Gun Fuji M-Model  
60-90% Transfer efficiency (TE)

NANO-CERAMIC USA Inc.  
333 Washington Boulevard  
Unit 440, Marina Del Rey, CA 90292-5136  
United States  
HP. +1 628 252 8580  
E-mail: [nanotech@lancierglobaltech.com](mailto:nanotech@lancierglobaltech.com)