

**NOW YOU CAN
SEE CLEARLY.**



NANO SCALE *“Easy Clean”* TECHNOLOGY
FOR THE *Preservation and Enhancement of*
COMMERCIAL *and* RESIDENTIAL GLASS

INVISIBLE SHIELD® GLASS COATING

Protecting The World's Glass

The aesthetic beauty of glass allows for extraordinary creations in the world of architecture. For thousands of years, the lustrous, hard and inert characteristics of glass, coupled with its transparency, have made it one of the most desired and widely used building materials. Yet, even the most stunning architectural glass in the world is continuously at risk of degradation, corrosion and permanent damage, if left unprotected.


The increasing cost of commercial glass, the relentless attack by environmental exposure and the ever-present cost of maintenance, has made protecting architectural glass a necessary and cost effective feature.

The Invisible Shield® “Easy Clean” Glass Coating is a product that deserves attention and warrants serious consideration. It helps retain glass in a “like new” and pristine condition and should be a required feature on all residential and commercial glass. The Invisible Shield Glass Coating durably protects glass to make it remarkably water, soil, stain, mineral, corrosion and scratch resistant. It reduces the impact to glass by exposure to environmental pollutants, reduces repairs, replacements and the ongoing cost of maintenance. The Invisible Shield protects glass through the construction process and for many years beyond, so it stays beautiful and transparent as it was intended.

A Product for the Future

The global market for flat glass used world-wide to produce residential and commercial windows for homes and buildings, facades, walls and partitions, balustrades, skylights, canopies, windshields and photovoltaic modules is projected to reach over 84 million tons annually by the year 2020 (*Global Strategic Business Report announced by Global Industry Analysts, Inc.*).

The construction industry represents the majority of the annual production and is the most dominant end-use market for flat glass. There are billions of square feet of existing glass windows, facades and glass clad systems world wide. The use of glass will increase substantially in both the commercial and residential building sectors due to its design, safety, security and lighting efficiency. **While glass is beautiful, modern and energy efficient, it is not moisture, chemical or corrosion resistant!**



Glass is the single most important building material known to man, and it must be protected.

Howard G. Ohlhausen, Founder, Unelko Corporation

UNELKO PIONEERS DURABLE, MICRON-THIN SOIL, STAIN AND SCRATCH PROTECTION FOR GLASS

The Invisible Shield Glass Coating was first invented and patented by Howard G. Ohlhausen of Unelko Corporation in Chicago, Illinois as a method for rendering nonporous surfaces water, soil and stain repellent. Following his acclaimed invention in 1971, Ohlhausen began to develop and market several innovative products. Through his service and experience in the U.S. Air Force, he developed Repcon®, a rain repellent and surface conditioner for military vehicles and aircraft. He then developed Rain-X®, the “Invisible Windshield Wiper” and glass treatment for “Improved Visibility and Driving Safety” on automotive glass, now sold worldwide.

From his ongoing study and research of commercial glass, and the nature of water-borne residue, soil, minerals and pollution, **Ohlhausen demonstrated that the adhesion and build-up of water insoluble soil and contaminants could only be prevented, long term, by durably sealing and protecting glass to make it water, soil, stain repellent and resistant to degradation and corrosion.** His testing further proved that his invisible, ultra-thin polysiloxane coating made glass 77.3% more resistant to damage from pitting, etching and scratches.

Unelko has become a leading manufacturer of water repellents, surface treatments and protective coatings and they have steadfastly pioneered the Invisible Shield “Easy Clean” Coatings to preserve and protect glass and other surfaces to reduce the frequency and cost of cleaning. One of their primary focuses has been on the preservation, enhancement and “preventive cleaning” of residential, commercial and architectural glass including facades, windows, glass walls, doors, partitions, mirrors, skylights and canopies, shower doors and tile, solar, automotive and marine glass. “Glass is the single most important building material known to man, and it must be protected” stated Ohlhausen.

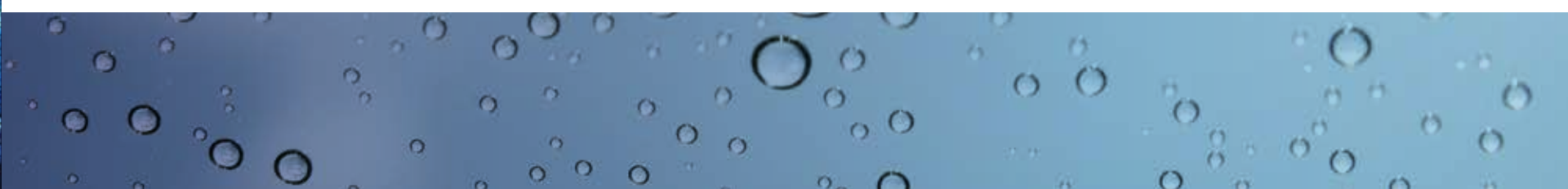
Commercial Glass is Easily Stained, Damaged and Obscured

Commercial and residential glass is easily damaged by the environment and exposure to weather, pollution, acid rain, carbon emissions, sand, grit, chemicals, cement and aluminum run off and other corrosive contaminants. Unfortunately, a majority of the existing glass worldwide has already been severely stained, damaged and obscured because it has been left unprotected.

It is widely held that up to 10% of windows and facades fail even before they are installed at the job site. After 20 years, an additional 15% or more of glass windows/facades fail as they are exposed to the environment. After 25 years, a growing number of windows and glass clad systems need to be replaced at exorbitant cost (*Canadian Facility Management & Design*). The average cost to replace a glass clad system is prohibitive and is estimated at more than \$200 per square foot not including interior reparations. Once glass has been stained, scratched and obscured, there is no viable cost-effective method to restore it to its original condition.

As a consequence, cleaning unprotected glass has become necessary on a regular monthly or quarterly basis to prevent permanent stains and damage and it is incredibly time, labor and material intensive.

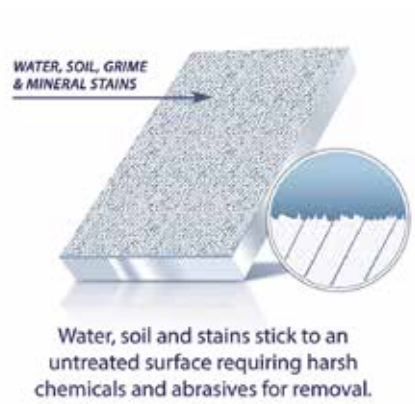
The cost to residential and commercial building owners to clean the glass (over time) has in many respects exceeded the cost of the glass and installation itself. **While commercial and residential glass will never be self-cleaning, it can be durably protected and preserved with the Invisible Shield Glass Coating, the original high performance water, soil and stain repellent finish designed to protect glass in all forms.**



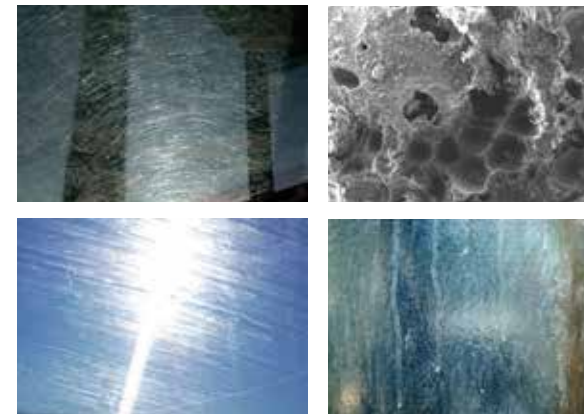
WHY GLASS NEEDS TO BE DURABLY PROTECTED

Glass is subject to stains, pitting, etching, scratches and degradation from exposure to dust, sand, grit, moisture, gases and pollution within the atmosphere and environment. Weather, coastal spray from lakes, oceans and moisture containing air pollution, alkyl vapors, carbon emissions, gases, carbonic acid, chlorides, sulfates, nitrates and ammonia attack glass and make it chemically active when the contaminants evaporate, dry and bond to the surface. The resulting chemicals and minerals penetrate and buildup on the glass as water-insoluble, inorganic lime scale, alkali, rust and mineral deposits which permanently stain, etch, damaged and obscure the clarity of the glass. It presents a very difficult and costly maintenance challenge.

Unprotected Glass



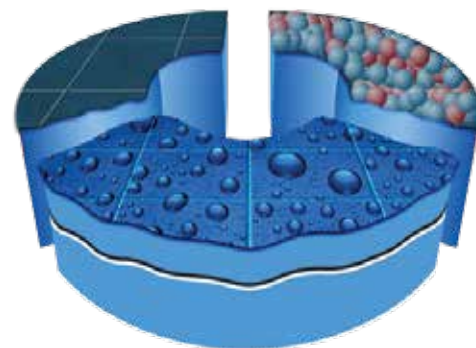
Examples of unprotected, scratched, stained and encrusted glass.



Protected Glass

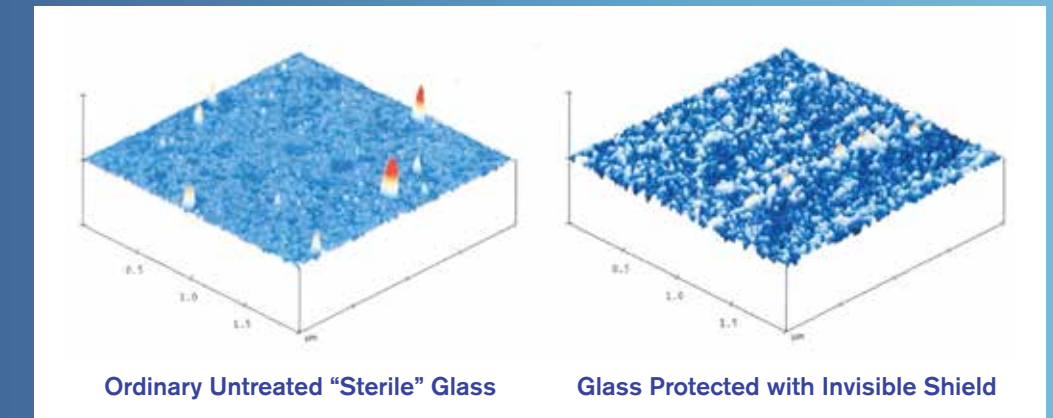


Invisible Shield is a complex formulation of polysiloxanes that crosslink and form a nano scale monomolecular coating that durably protects glass.



Nano Scale Atomic Microscope Photos taken of spiked/porous untreated glass and treated/protected glass.

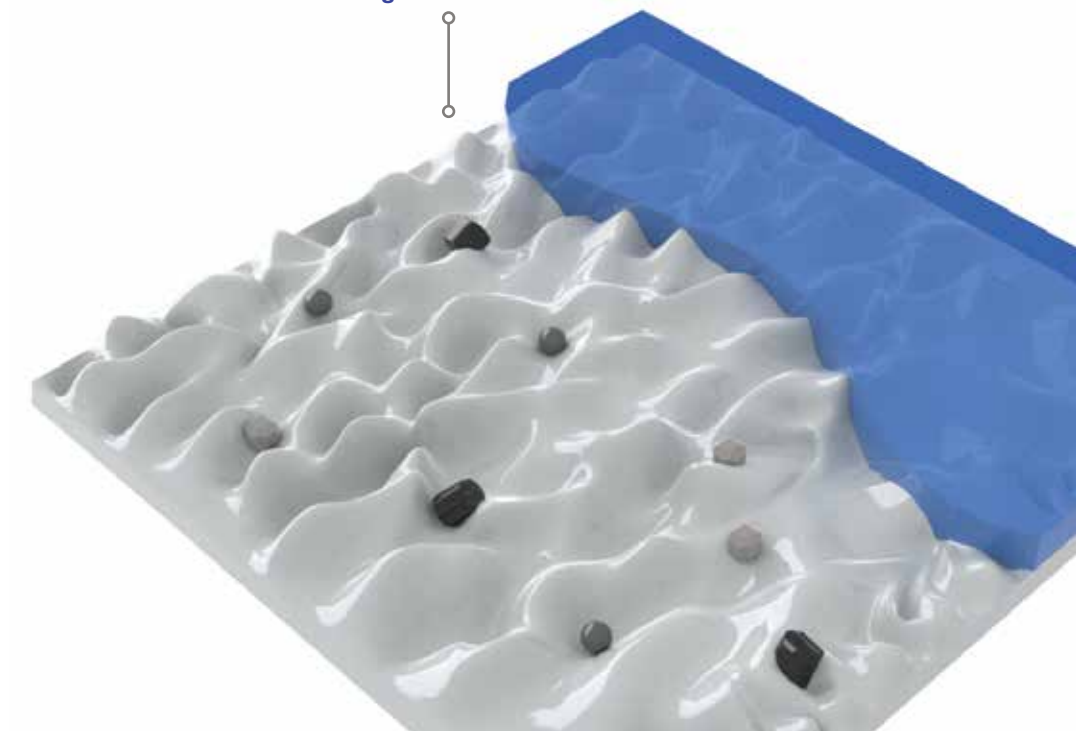
Glass is very susceptible to highly acidic and/or alkaline solutions, contaminants, chemicals and other build-up. Acid rain and inorganic compounds such as sodium hydroxide and sodium chloride (sea salt) can chemically attack and etch glass and make it more porous and receptive to further staining and corrosion. The corrosion to glass by acid rain, hard water stains, sea salt, lime scale, atmospheric chemicals and oxidation from metal and cement runoff is highly corrosive.



Unelko's Steven Ohlhausen states:

"Glass is not corrosion resistant. Its very nature is hydrophilic or water, moisture, soil and stain accepting. It has many irregular hills, peaks and valleys that trap and hold moisture, pollution and other inorganic contaminants that build-up if not maintained on a very regular basis. The chemically active build-up attacks and weakens the glass causing stains, pitting, etching and other permanent damage."

Simulation of Glass Surface Magnified



A SURFACE-DESTROYING VICIOUS CYCLE

The long construction process itself can be very damaging to newly installed glass. New unprotected glass is exposed and can be instantly and permanently stained, pitted, etched or scratched during construction by airborne dust, debris, chemicals and other construction materials.

To remove the water-insoluble soil and films, cleaning professionals have turned to stronger and stronger cleaning agents; including powerful acids, solvents, abrasive cleansers and even razor blades in an attempt to remove the stains. The result of using such harsh, improper cleaning methods is a double edged sword and a "glass destroying-vicious cycle". Improper cleaning leads to glass that looks visibly rough, pitted and exhibits reduced clarity and appearance.

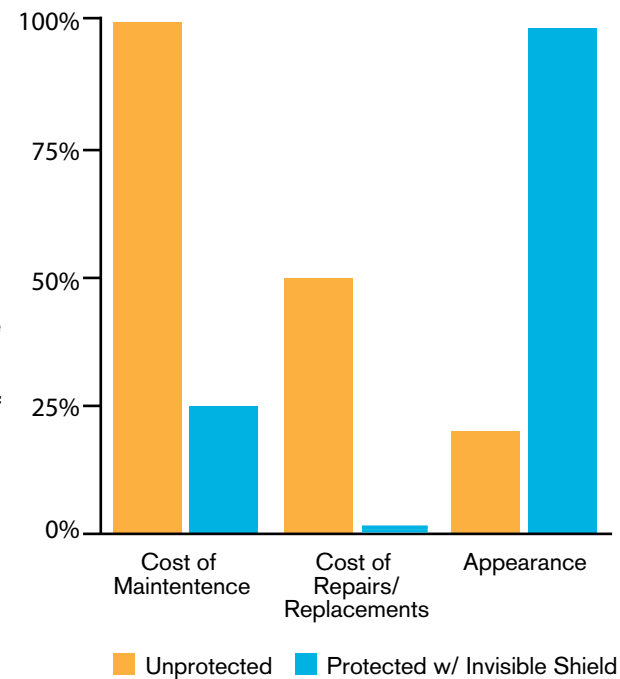
The cost of cleaning low and high-rise glass has become increasingly costly in recent years due the difficulty of cleaning high rise glass and to a shortage of trained and qualified cleaning professionals willing to scale the buildings to clean the glass due to the potential human risk.

THE "LOW COST" SOLUTION FOR GLASS MANUFACTURERS, ARCHITECTS, BUILDERS AND OWNERS

Manufacturers, Architects, Builders and Owners who pride themselves on designing/building the most beautiful architectural glass buildings, are increasingly frustrated over the lack of or improper glass maintenance. Frequently, they inspect their projects soon after they have been completed only to find that the glass has already been severely stained and obscured due to the environment, improper cleaning or neglect. Many commercial glass manufacturers offer limited coverage for corrosion to glass and the ultimate high cost of repair/replacement is a prohibitive burden on building owners.

The current wage for trained "high-rise" window cleaners is in excess of \$75.00 per hour and the cost to clean high-rise glass is estimated at more than \$.50 per sq. ft. (or \$5.00 per sq. meter). For large architectural high rise buildings, owners and/or lessees are spending hundreds of thousands of dollars per year to clean the glass, and it still can't keep up with the level of staining and degradation caused by environmental exposure and contaminants.

Invisible Shield Saves Cost, Labor, Repairs and Replacements! It is estimated that an architectural building with 256,000ft² of glass can cost in excess of \$16 million at estimated \$4,000/panel (avg panel: 64ft²; graph simulates 4,000 panels as 100% or \$16,000,000 installed cost). Labor is based on cleaning once a year on Invisible Shield Protected glass vs. cleaning unprotected glass quarterly over a 25 year period.

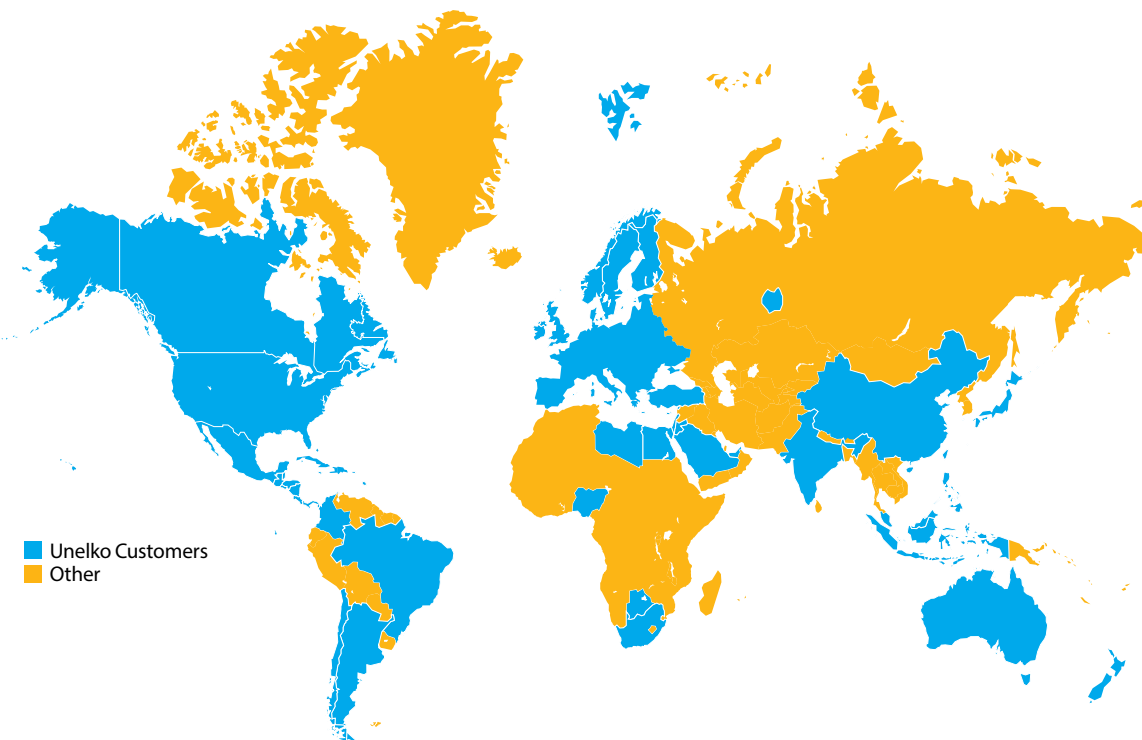


THE LEADER AND MOST TRUSTED NAME IN GLASS PROTECTION

The original Invisible Shield® Glass Coating and New Invisible Shield PRO 15 are high performance, ultra-thin polysiloxane coatings that durably seal and protect glass to reduce the wear, penetration, adhesion and buildup of soil, minerals, contaminants and scratches for easier and less costly maintenance, improved appearance and extended life. Glass that is durably sealed and protected with the Invisible Shield Glass Coating can be maintained in a "like new" and pristine condition for improved appearance indefinitely. **The Invisible Shield is the effective, low cost solution to the ongoing deterioration, degradation and improved cleaning of residential and commercial glass.**

Unelko has more than 40 years in the research, development and manufacture of specialty cleaners, water repellents and protective coatings for the preservation, enhancement and "easy clean" benefit of glass and other surfaces. The very best commercial glass and sanitary ware manufacturers, distributors and end users are offering the Invisible Shield Glass Coatings to preserve and protect glass and other high end surfaces. Manufacturers of flat glass, windows and facades, walls, partitions, mirrors, shower doors and tile, windshields, marine and solar glass can now offer a better product by protecting the glass against harmful effects of the environment, degradation and corrosion. The Invisible Shield Glass Coatings can be pre-applied to glass during manufacture or easily applied by professional contractors in the field, to protect existing glass as an "after care" cleaning and preservation solution.

Invisible Shield is Protecting Glass by Major Manufacturers & Through Worldwide Distribution



Invisible Shield was selected by Allied Glass Company to preserve and protect the glass installed in New York City's unparalleled public park, The High Line. Invisible Shield has preserved the integrity of the glass which has been exposed to the harshest of elements for nearly a decade. Invisible Shield is time tested to exceed New York City's interactive urban environment.

Lee Sparaco, Glassologist, ALLIED GLASS, NY

INVISIBLE SHIELD® THE LEADER AND TRUSTED NAME IN GLASS PROTECTION



UNPROTECTED GLASS

Glass is subject to corrosion from exposure to gasses, acids and moisture in the atmosphere and environment.

INVISIBLE SHIELD® PROTECTED GLASS

Invisible Shield represents the highest quality and standard in a protective glass coating and it is widely considered the best coating on the market.

WHY INVISIBLE SHIELD® GLASS PROTECTION OVER OTHER COATINGS?

The Invisible Shield® and New PRO 15 are the best glass coatings on the market. They represent the highest quality, performance and standard in protective coatings and have been widely used, tested and are proven to protect glass over many years in the field. The Invisible Shield Coatings keep glass in a clean, clear and corrosion-free condition and are recommended by many major glass manufacturers, glaziers, distributors and end-users worldwide. Importantly, the Invisible Shield coatings are offered at competitive prices compared to other coatings, whose manufacturers market their products by charging high initial franchise fees, make exaggerated performance claims, offer deceptive “fine print” warranties and charge exorbitant and unrealistic prices.

The New Invisible Shield PRO 15 is a high performance, value driven product that durably protects glass as low as pennies per square foot/meter for years of protection under the most extreme conditions. Please see the Invisible Shield and PRO 15 test data and 15 Year Performance Warranty.

The Invisible Shield PRO 15 Offers up to 15 Year Limited Warranty

Unelko guarantees that Invisible Shield PRO 15—when used, applied and maintained as directed—will resist water, soil and stains on exterior glass for up to 15 years or longer from date of application, and up to 3 years or longer from date of application on high contact/use interior glass such as shower enclosures, glass block or sand blasted glass. Invisible Shield PRO 15 can be infinitely renewed—for a lifetime of glass protection as and when needed—depending upon use and exposure, without removing the prior treatment or risk of buildup or discoloration.



The information contained in this catalogue is reliable and accurate, but Unelko makes no expressed warranty, representation, or guarantee regarding the testing or information contained herein. Unelko assumes no liability arising out of the misapplication or suitability of its products or any of the products tested. The performance testing and specifications are believed to be reliable and accurate, but have not all been verified by independent or third-party testing. It is recommended that the buyer conduct and complete its own performance and compatibility testing of the products, alone and together with, or installed on any other end-use products.

As a distributor, we have tested countless easy clean coatings from all around the world until we finally found a coating we would be proud of selling. We tested all coatings in many different situations on interior and exterior glass. We compared the abrasion resistance and efficacy of all those coatings and found by far, Invisible Shield has the best quality-satisfaction/price ratios. By very far, Invisible Shield was also easier and faster to apply than the other coatings. Simply put, it may be the best coating in the world and it is also fairly priced!

Dominic Bazinet, Vice-President of Siozen

UNELKO DEVELOPS NEW “ARCHITECTURAL GRADE” PRO 15 GLASS COATING

The New Invisible Shield® PRO 15 Glass Coating represents a major breakthrough in glass coating technology. It is a proprietary formula, ultra-hydrophobic glass coating that was developed after years of research to offer unmatched glass protection, durability and performance. It should be specified by architects, builders and owners for use on glass projects worldwide.

It was designed to be applied “in-line” by glass manufacturers and covalently bonds to flat glass, quickly and efficiently, to preserve and maintain the glass and prevent costly corrosion, degradation and damage.

Advantages of Invisible Shield PRO 15

- » Lasting protection up to 15 years or longer
- » Repels water, soil, rust, lime and minerals
- » Prevents unsightly stains, scratches and deposits
- » Saves work, repairs and replacements
- » Improves glass appearance and clarity
- » Makes cleaning faster, easier and more efficient
- » Eliminates the need for chemicals or abrasives
- » Saves time and labor, reducing cost of cleaning
- » Easily applied and easily renewed
- » Makes glass 77.3% more scratch-resistant

Qualities of Invisible Shield Coatings

- » Complex solvent extended coatings - fast evaporating and drying
- » Ready to use - requires no mixing, dilution or catalysts
- » Indefinite shelf life - in storage stable containers
- » Spray or wipe-on treatments - offers versatility and ease of application
- » Fast acting, non curing and non-dusting - contains no waxes, plastics or resins
- » Multi-functional - repels water, soil and stains - reduces friction and scratches
- » Invisible and non-distorting – monomolecular and optically clear
- » Has application on all glass, porcelain and ceramic surfaces
- » Coatings will not crack, peel or discolor



THE INVISIBLE SHIELD® AND INVISIBLE SHIELD PRO 15 HAVE BEEN TESTED TOUGH

Test Analysis	Invisible Shield®	Invisible Shield® PRO 15	Notes
Reflection/Color	Pass	Pass	not affected on AGC low iron Glass or Uncoated Glass
Reflection/Glare	Pass	Pass	No Color Change or Impact on Glare
Chemical/Alkalinity	Pass	Pass	72 hour test
Coefficient of Friction/Angle	Pass	Pass	68% less friction- normal/friction force test
Min. Contact Angle – Dist. Water	Pass	Pass	108 to 110° ASU
Freeze/Thaw Stable	Pass	Pass	(15°C to > 20°C)/ 40 cycles
Humidity	Pass	Pass	ASTM D4585-Condensation/Chamber 100 hour test
Salt Spray	Pass	Pass	Over 100 hour test
Weather Meter	Pass	Pass	2000 hour test
Numerous Mechanical Abrasion	Pass	Pass	Taber Machine Use
Windshield Abrasion	Pass	Pass	500,000 wiper cycles
Algae/ Mineral Deposits	Pass	Pass	Non-Bonding
Salt Spray /Fog	Pass	Pass	ASTM B117-Corrosion Resistant
Migration	Pass	Pass	Non-migrating
Thermal Shock/IR Radiation	Pass	Pass	Autoclave chamber ISO 4802
Scratch-Resistant	Pass	Pass	77.3% More Scratch Resistant/200x magnification ASTM G99, E 2546, D7027
Glass Stress/Strength	Pass	Pass	Over 31.2% less stress on IS coated glass compared to uncoated
Light Transmission	Pass	Pass	No Distortion/Reduction to Optical Properties of Glass
Safety	Pass	Pass	Solvent extented. Eye irritant. Flammable.
Paint Abrasion/Graffiti	Pass	Pass	Permanent Ink/Marker
Pencil Test	Pass	Pass	6H - no visible wear

Invisible Shield® PRO 15 Outperforms the Competition

Durability tests were performed on the Invisible Shield PRO 15 and three known competitor products. A Taber Abrasion Machine and reciprocating test method was employed on 4 inch borosilicate glass slides to determine abrasion resistance of each of the glass coatings. All products were applied using strict manufacturer application instructions. Precise GLP test parameters were followed with a consistent test load set-up using 60 grams of weight and slightly abrasive felt pads. The abrasive cycles moved in a vertical reciprocating motion at a cycle speed of 55 cycles per minute up to 5,000 cycles. Glass Coating tolerance was reviewed every 500 stroke intervals monitored by digital readout.



EnduroShield® Glass Coating
Visible wear after 1,000 abrasion cycles
Fail

Ritec ClearShield® Glass Protect
Visible wear after 2,500 abrasion cycles
Fail

Diamon-Fusion®- Clear Fusion PRO
Visible wear after 3,500 abrasion cycles
Fail

Invisible Shield® PRO 15 Glass Coating
Minimal wear after 5,000 abrasion cycles
Pass

Intense Focus on Research and Product Development

Unelko has focused on the research and development of the newest and best technologies to clean and protect glass. They continue to develop high performance products that make a difference and have several new glass cleaning/coating technologies that are “game changers” for the Industry.

Due to the increasing impact of soiling, staining, scratching and corrosion on glass and numerous requests by major manufacturers for a more functional glass coating that provides faster application and superior durability, Unelko has developed its new commercial grade Invisible Shield PRO 15 Glass Coating.

The New Proprietary Glass Coating Formula is:

- » More abrasion resistant to the standard Invisible Shield Coating and other glass coatings on the market
- » Faster and easier to apply from an application, equipment and process standpoint
- » Offers a 15 year Product Warranty/Guarantee subject to application, exposure and maintenance on exterior glass
- » Utilizes innovative UV and IR Initiator Application Technology

New Water Based REPEL® 263 “Dual-Action” Glass Coating Technology!

Unelko has also developed a new solvent-free, water based glass cleaning/coating technology—trademarked Invisible Shield REPEL® 263. It is offered in a RTU or a MUP “Glass Cleaning/Coating Concentrate” ideal for glass manufacturers and window cleaning companies to clean and protect glass simultaneously. The new economical “Dual Action” formula is an environmentally conscious alternative to the solvent system and can be used in automatic “glass washing machines” by manufacturers to clean and protect glass in-line.

Unelko has worked with a number of major glass manufacturers who have positively tested the new “water based” product and it is already being used in-line to clean and protect glass and provide exceptional soil, stain and scratch resistant properties.

We have been servicing the glass industry for over 40 years working throughout Asia, Australia and New Zealand. APQ Glass was founded in 1991. We have a manufacturing facility and represent global manufacturers of architectural glass and associated products. We have had a long standing relationship with UNELKO using and distributing their cutting edge Nano Technologies for use on glass surfaces of all kinds, in many environments. The protective benefits, repellency and durability of UNELKO’s Invisible Shield Coating Technology exceed any other products that we are aware of. Importantly, Unelko’s pricing policy has consistently allowed APQ to offer the protective coating and be extremely competitive in the marketplace. It has helped us earn the trust of many of the most prominent names in the glass industry. We appreciate the exceptional service and support we consistently receive from UNELKO. They have proven to be an excellent business partner, and a valuable tool in the growth of our business and market share.

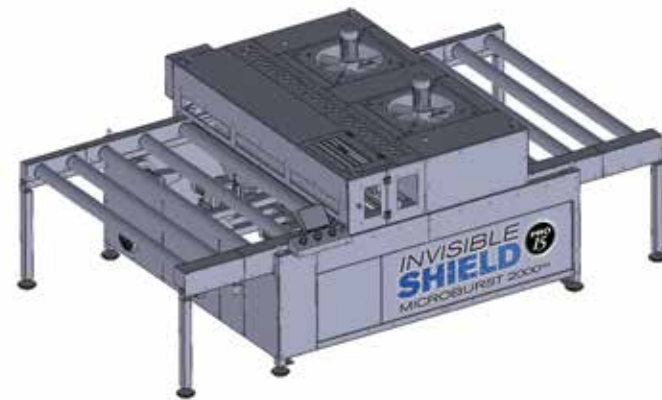
Mark Evitt -Managing Director of APQ

UNELKO DEVELOPS EFFICIENT MICROBURST 2000™ GLASS COATING MACHINE

To make it easier, cost effective and efficient for glass manufacturers to offer protected glass, Unelko has developed an advanced automated, in line spray application coating machine to apply the Invisible Shield PRO 15 protective coating. The New Invisible Shield Microburst 2000 is a state of the art, fully automatic glass coating machine capable of treating more than 1,000,000 square meters of glass per year (in a single shift).

The New Invisible Shield Microburst 2000 offers a high output, microburst application system that is the fastest, most efficient and cost-effective glass coating machine on the market:

- » Space saving, fully automated in line coating process
- » Robotic glass detection system
- » Offered in Horizontal or Vertical Formats
- » Utilizes UV and IR Initiator Technology
- » Requires No Pre Cleaning, Brushing or Rinsing
- » Applies the Invisible Shield PRO 15 efficiently and effectively at over 6,000 Sq Ft/ 600 Sq. Meters Per Gallon.
- » Achieves 110° contact angle and Ultra-Hydrophobicity



Manufacture Applied Invisible Shield PRO 15 and State of the Art Application Machine Offers Superior Glass Protection

The Microburst 2000 is a modern, stream-lined glass coating machine capable of treating volume glass in-line without any physical contact with the glass or roller/brush application system. This includes pre- or post-cleaning of the glass and the application requires no long curing times.

The space saving machine was designed to be used with the Invisible Shield PRO 15 Coating using UV and IR Initiator Technology that durably and instantly forms a covalent bond to the glass. The combination of PRO 15 and the Microburst 2000 represents the most advanced glass coating and protection system available. It is perfect to treat/protect exterior windows, architectural glass and facades, walls, partitions, shower glass, museum glass and any flat glass in line fast, efficiently and cost effectively. The Microburst 2000 application machine and the Invisible Shield PRO 15 Glass Coating have been manufactured to the highest standards and specifications.

Invisible Shield®, Invisible Shield® PRO 15 and REPEL® Have Broad Application on a Variety of Commercial and Residential Glass

Unelko's specialty cleaners, treatments and protective coatings offer owners, contractors and end users an easier, more cost effective way to maintain glass. Importantly, Invisible Shield improves the ongoing appearance and clarity of glass and protects it against potential irreversible damage from stains, pitting, etching or scratches...long term.



STOP DEGRADATION TO EXISTING GLASS IN THE FIELD

Although a vast amount of the existing glass worldwide has already been permanently stained, etched, damaged or obscured, all is not lost! The Invisible Shield Coatings will stop the degradation and corrosion of existing, unprotected glass in the field. It can turn costly, hard to maintain glass into better looking, protected, easier to maintain glass. As long as you properly pre-clean the existing glass and it is relatively stain and scratch free. Invisible Shield is easily applied by professionals to improve the clarity, appearance and maintenance of existing glass to stop further degradation.

Unelko manufactures a number of products to pre-clean and restore glass. The products are highly-efficacious and provide an effective cleaning system to remove stains before applying the Invisible Shield protection.

Unelko's Glass Scrub® Water Spot & Stain Remover cleans and restores glass to a "like new" condition with all of the luster and appearance of newly installed glass. The heavy-duty, mildly abrasive cream cleanser safely removes airborne contaminants, stubborn mineral deposits, rust, limescale and accumulated dirt and grime. Unelko offers Invisible Shield® Liquid Pre-Cleaner & Restorer, which is easy to use and removes heavy soil and stains without leaving residue.



We have tested many "easy clean" coatings for application on the shower doors and enclosures we manufacture. Unelko's Invisible Shield Glass Coating is the best performing, easiest to apply, and most competitively priced product on the market... Unelko's innovative "water based" product—Repel—has been offered on our website for years, as part of an after care solution for our customers. As a family business in our 33rd year, we value our key suppliers, and we value Unelko as a partner with great integrity and passion for their product. *J. Pearson—Commercial Director/Roman Showers Limited*

UNELKO OFFERS AN ARRAY OF ADVANCED GLASS CARE PRODUCTS, SPECIALTY CLEANERS, COATINGS AND STAIN REMOVERS

Recognized as the world leader in Advanced Glass Care Technologies, Unelko has focused on the preservation, enhancement and “preventive cleaning” of residential and commercial glass including architectural glass, facades, windows, partitions, walls, skylights, shower doors, tile and other vitreous china, solar, automotive, aeronautical and marine glass applications.



Invisible Shield® PRO 15 Glass Coating (RTU)

Ready To Use- High performance, nano scale ultra hydrophobic coating with UV Initiator Technology. Durable, invisible water, soil & stain repellent coating for glass, porcelain and ceramic surfaces. Designed to be used with the Invisible Shield MICROBURST 2000™ Glass Coating Application Machine. Solvent based; UV & IR Curable. Storage stable & free of harsh chemicals. Safe on AR, laminated/insulated glass. Available in 32 oz (960 ml), 1 Gallon (3.78L), 5 Gallon (1.8927ml), 55 Gallon Drum.



REPEL® Glass & Surface Cleaner (RTU)

1-Step “Dual-Action” Cleaner/Coating Technology. Low surfactant & VOC formula offers easy “spray & wipe” cleaning & protection for glass, porcelain, ceramic, stainless steel, stone, aluminum, laminates and plastics. Ammonia free - user and environmentally safe and storage stable. REPEL is recommended to clean and protect glass, porcelain and ceramic surfaces previously treated with the Invisible Shield® Glass & Surface Coating or Invisible Shield® PRO 15 Glass Coating. Available 32 oz (960 ml), 5 Gallon (1.8927ml) Pails, 55 Gallon Drum.



Invisible Shield® Glass & Surface Coating (RTU)

Ready To Use- Nano scale, hydrophobic glass & surface coating for all glass, porcelain and ceramic surfaces. Solvent based, storage stable & free of harsh chemicals. Safe on AR, laminated/insulated glass. Available in 16oz, 32 oz (960 ml), 1 Gallon (3.78L), 5 Gallon (1.8927ml), and 55 Gallon Drum.



Invisible Shield REPEL® 263 (Concentrated 32:1)

Invisible Shield REPEL 263, is an aqueous, low surfactant & VOC glass coating technology that applies a hydrophobic coating with “value added” cleaning benefits. Designed to be used with automated glass washing systems. REPEL is storage stable and free of harsh chemicals. Safe on all glass, porcelain, ceramics, aluminum, stainless steel, stone, laminates and plastics. Available in 1 Gal. (3.78L), 5 Gal. (1.8927ml), 55 Gallon. Drum.



Invisible Shield® Pre-Cleaner & Restorer (RTU)

Effective acid based liquid Pre-Cleaner and Restorer. Cleans, degreases and descales glass prior to application of the Invisible Shield Glass & Surface Coating. Product is storage stable & free of harsh chemicals. Versatile applications include cleaning/restoration of glass, porcelain, ceramics, stainless steel, aluminum, laminates and plastics. Available in 1 Gallon, 5 Gallon (1.8927ml), 55 Gallon Drum.



Glass Scrub® Water Spot & Stain Remover (RTU)

Ready to Use- Mildly Abrasive, high performance cream cleanser designed to remove tough dirt, grime, mineral stains and pollutants. Cleans & Renews glass and other surfaces to a like new appearance. Safe on all glass, porcelain, ceramics, aluminum and other metals Available in RTU Formula 16oz, 32 oz (960 ml), 5 Gallon (1.8927ml) Pails, 55 Gallon Drum.







Sani-Shield® Antimicrobial 3 in 1 Surface Care (RTU and Concentrate)

1-Step Cleaner, Deodorizer and Protectant. Cleans with power of hydrogen peroxide and provides an antimicrobial finish to all horizontal and vertical hard surfaces. Prevents odor causing bacteria, re-contamination, mold and mildew stains. Requires no rinsing. Available in RTU and Concentrate Formulas: 32 oz (960 ml), 1 Gal. (3.78L), 5 Gal. (1.8927ml), 55 Gal. Drum.



Stainless Shine® 3 in 1 Surface Care (RTU)

1-Step Stainless Steel Cleaner, Polish & Protectant. Cleans stainless steel and other metal surfaces to a streak-free shine without leaving oily residue and resists soiling of dust, fingerprints, smudges, dirt, grime & minerals. For stainless steel and metal appliances, railings, chrome and aluminum surfaces. Available in RTU: 32 oz (960 ml), 1 Gallon (3.78L), 5 Gallon (1.8927ml), 55 Gallon Drum.

Unelko is committed to offering the industry’s finest glass cleaning, protection and aftercare products. Contact a Unelko representative for additional product information and/or so we can tailor a glass protection program suited to your needs. Additional videos and product information can be seen online: www.GlassCareExperts.com | www.InvisibleShieldProtectsGlass.com | www.Unelko.com    



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