

Architectural Product Data Spec Sheet

Invisible Shield® PRO 15 Nanoscale Glass Coating Preserves Glass Long-Term



Apple NYC 5th Avenue Cube

Product Description

Invisible Shield® PRO 15 Nanoscale Glass Coating is a professional-grade, high performance, poly-siloxane, hydrophobic coating that durably seals and protects interior and exterior glass against wear, corrosion and degradation from environmental exposure.

Features/Benefits

- Repels Water, Soil, Rust, Acid Rain, Minerals and Pollutants
- Prevents Excess Soiling, Staining & Corrosion
- Prevents Scratches up to 92.9%*
- Makes Cleaning Faster, Easier and More Efficient
- Improves Glass Appearance and Clarity
- Saves Work, Repairs & Replacements
- Eliminates the Need for Chemicals and Abrasives (Green Cleaning Alternative- Use Water Only)
- UV & Abrasion Resistant

Surfaces

Applicable for all types of glass: Windows, facades, partitions, doors, skylights, atriums, glass block, shower glass, mirrors, windshields and photovoltaic panels.

Function

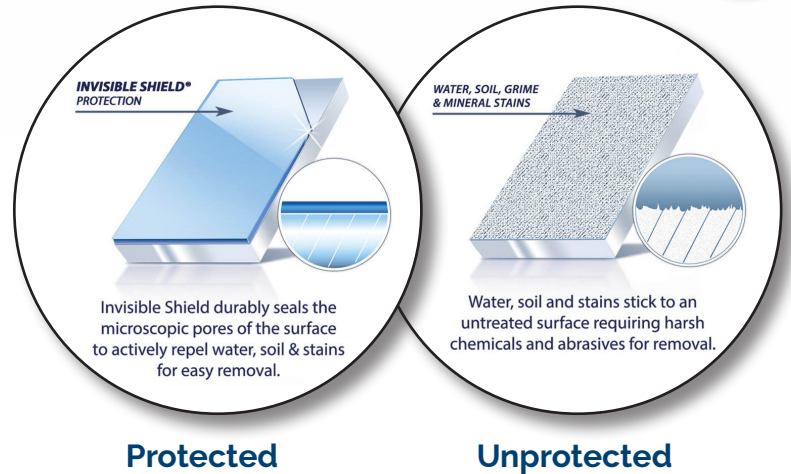
Protects and preserves against soiling, staining, pitting and scratches for easier & less costly maintenance, reduced repairs, enhanced appearance and longer life.

CSI Ref- Architectural Specification

Division 088000 - BSD Glazing & 088723.10 - Protective Glass Coatings

Part Numbers

USA #54215 Quart #54267 Gallon



Coverage Rates

Surface Coverage: Average 4,000 ft²/Gallon

It requires no shaking, stirring and should not be diluted. It should be used in a manner which ensures complete coverage. Applied by conventional spraying, wiping and/or polishing techniques, it affords remarkable glass protection and coverage – in excess of 1,000 ft²/Quart or 4,000 ft²/Gallon. Coverage will vary slightly in accordance with the type and condition of the glass to be treated and the method of application.

Technical Data

- **Active Ingredient:** Dimethyl Polysiloxanes + Proprietary Blended Additives
- **Solvent** specially denatured ethanol/isopropanol - proprietary formula (RTU)
- **Flash Point:** 19°C = 66°F (TAG Open Cup)
- **Odor:** Mild (Ethyl Alcohol)
- **Color:** Clear, Colorless liquid
- **Acid Number:** About 1
- **Viscosity:** Consistency of alcohol
- **Specific Gravity:** 0.802
- **Abrasives:** None
- **Storage Stability:** Minimum 5 years
- **Shelf Life:** Indefinite in Closed Containers
- **Weight per Gallon:** 7.7 lbs.
- **Dry Time:** Minutes depending upon temperature for solvent evaporation
- **Available:** 32 fl. oz., 1 gal., 5 gal., 54 gal., 250 gal.

Technical Data:

NANOVEA - ASTM G99, D7027, D7187 Standards
92.9% More Resistant to Scratch Penetration
54.2% More Resistant to Wear/Stress from debris

Contact Angle Test

- **Kruss DSA-20. ASU Biodesign Institute average** 108.3°
- **Biodetek Laboratory:** Kruss Easy Drop. 107.2°
- **Sealant Test:** Dowsil™ DOW HIGH PERFORMANCE BUILDING
- **Adhesion Test, ASTM C794:** Adhesion in peel of elastomeric joint sealants.
- **Approved leading Dowsil sealants:** 791 black, 983SGS black, 795 black

INVISIBLE SHIELD[®]

PRO
15

Application

Glass Assessment: Glass must be thoroughly clean and dry prior to application of Invisible Shield[®] PRO 15.

Directions For Use

For semi-manual application: (1) Thoroughly saturate a cotton or microfiber applicator with Invisible Shield[®] PRO 15 and apply onto the glass using a firm and overlapping motion, or spray the product directly onto the glass using an air or airless fine mist sprayer. Wipe/polish the product directly onto the glass using a firm and overlapping motion. (2) Allow the product to dry for several minutes until the solvent has completely evaporated. Re-apply the coating to ensure complete coverage and optimum protection. Allow to dry until a slight haze has formed. (3) Remove any excess haze by rinsing the glass with clean water and polish dry with a cotton or microfiber applicator or squeegee until crystal clear.

Automatic Application

Invisible Shield[®] PRO 15 Vertical Two-Sided Glass Coating Machine and Microburst 2000 Horizontal Single-Sided Coating Machine – both include UV & IR Curing Technology.

General Precaution

Flammable liquid. No smoking. Avoid contact with eyes. If splashed into eyes, flush with water for 15 minutes. If irritation develops, see physician.

Environmental Conditions

DO NOT clean or treat glass in hot, direct sunlight or if the surface temperature is in excess of 90°F or 32°C. DO NOT apply the coating on wet, rainy days or when the humidity is above 90% as it will slow the evaporation process and inhibit bonding of the coating.

Limited Warranty Procedures/Information

Unelko warrants Invisible Shield[®] PRO 15 for up to 15 years from the date of application on interior and exterior glass applications. When applied and maintained as directed, the product will protect against visible corrosion on the protected glass surface.

The product warranty does not extend to or cover misapplication or mis-use of the product, including the use of abrasive or harsh cleaners or applications tools, excessive soiling from lack of proper cleaning or neglect; wear and tear of the surfaces resulting from prior damage and exposure to extreme weathering and abrasion. See glasscareexperts.com/our-guarantee



Maintenance

REPEL[®] Window Wash and REPEL[®] Glass & Surface Care are compatible with the Invisible Shield[®] PRO 15 polysiloxane glass coatings. The REPEL[®] barrier coating is rejuvenated with each use to maintain peak performance. REPEL[®] Window Wash is well suited for large glass surfaces. Easily diluted with water at a 1:32 dilution. Simply add 1 part concentrate to 32 parts water with minimal shaking or agitation. As with any anti-corrosive product or solution, the glass should be cleaned periodically on a semiannual or quarterly basis commensurate with exposure.



Unelko is committed to offering the industry's finest glass cleaning, protection and aftercare products. Contact a Unelko representative for additional product information so we can tailor a glass protection program suited to your needs.

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