

PRESTO RESTORATION PRODUCTS

Glass Defender

The Architectural Glass Protective Product

Presto's Glass Defender provides an invisible coating for glass that protects the surface from a wide variety of damaging elements. In addition, Glass Defender helps to resist scratching on glass surfaces.

Description

Glass Defender prevents the development of stains caused by minerals including silicates, magnesium, calcium, lime, rust and salts. The protective coating will also keep water from penetrating the glass surface and help to prevent damage caused by ion exchange, oxidation, water erosion, etching and stage 1 and 2 corrosion. It also helps protect against environmental damage, including high mineral content tap or well water, exhaust fumes, chemicals, acid rain, ice, everyday grime and buildup, and mineral dust in the air.

When water comes into contact with surfaces treated with Glass Defender, it beads and runs down the glass, partially cleaning the surface. This helps to keep windows cleaner for longer and presents the opportunity for pure deionized water cleaning. The materials in Glass Defender are extremely durable and can withstand high levels of UV rays and temperatures between -50°F and 500°F.

REVOLUTIONIZING THE BUILDING MAINTENANCE INDUSTRY

Specifications

Advantages

- Specifically designed for architectural glass surfaces
- Protects glass from stage 1 and 2 corrosion, stains and water erosion
- Helps reduce scratches
- Provides the longest lasting glass protection available
- Excellent beading capabilities
- Invisible protection
- Allows windows to be cleaned using only deionized water
- Inorganic polymers resist aging
- Won’t fade, crack or peel
- Helps to prevent costly restoration

Intended Use

The Glass Defender product is designed for all glass plate or tempered glass surfaces. This product is not suitable for use in areas where food may come in contact with the protected glass.

Coverage Rates

1,250 sq. ft. per quart

Explanation

Seen microscopically, the surface of glass is extremely porous and contains many valleys in which stains form deep roots. Glass Defender fills these crevices creating a smooth, protected, plastic-like surface. The product reacts with minerals in the glass to form a polymeric barrier against environmental contaminants.

Necessary Equipment

- Gloves and goggles
- Microfiber towels
- Application sponge
- Window cleaning bucket
- Clean, dry window cleaning brush or squeegee

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Surface Preparation

Protection performance warranties are contingent upon using either Presto's **EnviRestore Glass Stain Remover** or **Glass ReSurFacer Final Polish** to prepare the glass surface immediately prior to the application of Glass Defender. Remove all dirt from the surface. The level of protection will be sacrificed if all contaminants are not removed prior to use.

Be sure to polish the glass surface with a rag to remove all restoration product residues. Do not use detergents containing surfactants on the glass between the restoration and the application of Glass Defender. Apply the product immediately after the glass restoration process has been completed.

Application

Use protective gear, and prevent personal contact with these products. Do not apply this material to glass when surface temperatures are above 122°F or below freezing. Never apply this product with an applicator that has been used with other products or solutions, and especially not with soap or water. The surface must be dry and clean from all debris.

Shake and mix product vigorously. Apply Glass Defender with a spray bottle or sponge. Use the sponge to thoroughly work the product into the surface of the glass. Spread product in a circular, over-lapping motion to ensure product coats entire surface. For best results, thoroughly work the product into the surface so that it forms a cloudy film.

Polish the surface with a microfiber towel to remove excess residue. A multi-step fold process should be used for best results. Fold the towel into squares using a clean area of the rag every couple of minutes until excess material has been removed. Leave as much residue as possible while achieving the desired level of clarity. Material residue may not be seen on the glass unless viewed in direct sunlight.

Never attempt to clean the residue with water or any type of cleaning solution for a period of 72 hours or in 50% humidity.

If a second coat is required, or if using a primer first, the second application should be performed with a clean and dry window cleaning brush and squeegee. Use the window cleaning brush to apply the product. Before the material dries on the glass, a dry window cleaning squeegee can be used to remove excess material. If the material starts to dry, add more product to loosen the dry material for easy removal with the squeegee. This application may eliminate the need for polishing the window. Clean excess residue from edges and frames with a rag.

When using a squeegee to remove product, carefully capture excess material with the product applicator. This technique should only be attempted by an experienced window cleaning professional with advanced squeegee skills. This process is only suitable for the second application. Perform subsequent applications immediately after the first. If an area is not completely covered, untreated areas may be noticeable as the glass ages and stains develop.

Curing & Safety Notes

The product will start to cure within 1 hour. The protective coating will not fully cure for 72 hours. No liquids may come into contact with the glass during that time.

Safety Note: Any wet rags that are laden with material may be flammable. Special precautions should be taken to protect these items from exposure to an ignition source.

Recommendations

For maintaining the glass after using Glass Defender, use **Scumfree Professional Window Cleaning Concentrate**. This is specially formulated for cleaning architectural glass without leaving an oily residue behind, which attracts and glues a variety of environmental contaminants to all building surfaces causing stains. Scumfree dries to a powder and is free from ammonia and other harsh chemicals which can damage protective coatings on glass, metal and stone surfaces.

Warranties

The information provided by Presto for the safe and effective use of this product, and all of our products, is believed to be good and accurate. However, due to the many different possible applications of this product, careful considerations should be made when selecting its suitability for each surface. The information provided should never be substituted for individual testing to ensure the product's compatibility with each surface intended for use. The purchaser shall assume all responsibility for determining the suitability of this product. When used as intended, this product will perform as stated.

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The performance warranties of this series are dependent on three factors:

- Combination of products selected
- Strict adherence to the application instructions
- Exposure to damaging environmental conditions

In normal conditions, these products will last as stated. In situations where the products are exposed to excessive UV rays, constant exposure to water or harsh chemical applications, reapplication may be needed more frequently. The length of time for which the surface will remain protected is directly related to its amount of exposure to damaging elements.

It is the responsibility of the purchaser and/or the purchaser's exterior maintenance service provider to monitor protected surfaces and determine the necessity of reapplication. It should also be considered that the glass on different sides of a building will age differently due to sunlight exposure. Typically, the coating on the north side of a building will last longer than the same coating on the south side of the building and require reapplication less frequently.

This warranty states that when this product is used in accordance with the application instructions set forth in this document, and not exposed to conditions outside of the documented Environmental Conditions Form filled out prior to purchase, and provided no harsh chemicals or abrasives have been used to damage or abrade the protective coating, the glass surface will be protected from previously identified stains that cannot be removed with standard cleaning procedures for a period of five years.

The Environmental Conditions Form must be completed at the time of purchase, clearly documenting the conditions and environment in which the protection will be warranted. Coverage applies to the conditions documented on that form. Presto will issue the warranty in writing.

In the event this product is found to be defective, we will replace a sufficient amount of product to retreat the warranted area. No other liability is implied and no other warranty can be made for this product, verbally or written.

Product Information

Series Info Chart	
Water Based	No
Combustible	Yes
User Friendly	No
Economically Efficient	Yes
Environmentally Friendly	Yes
Color	Clear
Smell	Mildly acidic

Product Availability
Glass Defender Series products are available in the following sizes:
1 Quart Bottle
12-Quart Case
Other Items:
Glass ReSurFacer Final Polish
EnviRestore GSR
Microfiber Towels

Green Synergy Product

Presto's Green Synergy Products work synergistically with each other to protect all surfaces of a building without damaging Presto's protective coatings. These products are designed to be the longest lasting protection available for preserving the appearance of buildings.

Green Synergy Products are designed so that they will not easily break down and leach degrading materials onto adjacent surfaces.

Green Synergy Products work to save you money. Our website features a 10-year Return on Investment graph comparing Presto's products against competitive options using older technology. More info: Click Here

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About Presto

Presto Restoration Products was created to implement higher performing technology, safer practices and products that provide a better return on investment to the building restoration and maintenance industry. Our expertise is researching and developing products and techniques to restore and preserve the magnificence of high-rise buildings built with architectural glass, metal and stone surfaces.

Presto strives to design products that comply with the Green Building Standards Act, which promotes better environmental standards for construction, rehabilitation and maintenance of buildings:

- Improve energy efficiency and increase generation of energy through renewable and clean energy technologies
- Increase the demand for environmentally preferable building materials, finishes and furnishings
- Improve the environment by decreasing the discharge of pollutants from buildings
- Create industry and public awareness of new technologies that can improve quality of life for building occupants
- Improve the health and productivity of building occupants by meeting advanced criteria for indoor environmental quality

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