

GLASS CLEANING AND MAINTENANCE RECOMMENDATIONS

All of Velocity's architectural glass products require routine cleaning to prevent the build-up of potentially harmful mineral deposits and airborne contaminants.

During the construction period, the glass may become more heavily soiled than at any other time. Special care should be taken at the initial cleaning to make certain the glass surface will not be damaged because of heavy surface contamination. The first time the glass is cleaned after building construction or at any time during the construction phase, the glass surface should first be rinsed with clean water. This is done to remove any surface contamination that may be present which could potentially scratch the glass during the cleaning process. The glass should be cleaned with a soft, clean, grit-free cloth and a mild, non-abrasive, non-alkaline cleaning solution. The glass should be rinsed immediately with clean water and excess water should be removed from glass surfaces with a squeegee.

For routine cleaning, use a commercial window washing solution or mild soap and water. Uniformly spray or apply the cleaning solution with a soft, grit-free, cloth sponge or pad and rinse thoroughly. The glass surface should then be wiped dry with a clean grit-free cloth or squeegeed dry. Care should be taken to ensure that metal does not come in contact with the glass surface and that no abrasive particles are trapped between the glass and cleansing materials. Razor blades, scrapers, putty knives and metal parts of glazing tools can scratch glass surfaces and should not be used to clean glass.

ADDITIONAL CONSIDERATIONS

In all cases when cleaning glass, extreme care should be taken to ensure that no abrasive particles are trapped between the glass and cleaning materials.

Construction Sites: Debris or grit that accumulates on glass can be damaging if not handled correctly. Cleaning should begin by soaking the surfaces with a water and soap solution. Flush as much of the grit as possible with a spray of clean water. Reapply the window washing solution and wash with a squeegee or grit free rag. Uniformly spray or apply the cleaning solution with a soft grit free cloth sponge or pad and rinse thoroughly. The glass surface should then be wiped dry with a clean grit free cloth or squeegeed dry.

Concrete or mortar slurry that runs down (or is splashed on) glass can be especially damaging and should be washed off as soon as possible. It is extremely alkaline and will eventually etch the glass surface. Begin by soaking the surfaces with a water and soap solution to loosen mortar. Next, flush as much of the grit as possible with a spray of clean water. Reapply the window washing solution and use a squeegee or grit-free cloth. It is strongly recommended that window washers clean a small area or one window, then stop and examine the surface for any damage to the glass.

Cup Marks: Vacuum cups are utilized to move and install large glass lites. The cups are made of silicone or rubber and can transfer small amounts of these materials onto the glass surface. The appearance of cup marks can be exacerbated by accumulation of dust and debris from the construction process. Glass protection and/or routine cleaning during the construction process will help to minimize this effect. Over the course of time, cup marks normally fade away due to repeated cleanings and exposure to the environment. Manually removing cup marks is challenging. Utilize a lambswool pad with cerium oxide on a cordless drill.

Silicone: Excess silicone on the glass face can be removed. If the glass is dirty, flush off the grit particulates with a spray of clean water. Remove as much of the silicone as possible from the glass without damaging the surface. A thin film of silicone may remain on the face of the glass. Once the silicone is thin enough, soak it with an isopropyl alcohol solution and use 4 ough steel wool (0000) to remove the remainder.

Disinfecting: In cases where a disinfecting cleaning product is needed, the glass can be wiped with a soft, clean, grit-free cloth and a 70% isopropyl alcohol solution. The solution should not be allowed to pool along the edges of the glass and should be rinsed or wiped off.

Interior Surface Low-E:

Guardian SunGuard® IS 20 – No special cleaning requirements are necessary to clean this product.

AGC Energy Select™ 73 –
Regular Cleaning

1. Thoroughly clean the surface of the glass with a clean sponge or soft cloth and plain water to remove surface contaminants.

2. Dry with a clean soft cloth. Use a clean sponge or soft cloth to wash the surface with a solution of 10% to 20% vinegar. Always use a new soft cloth or a squeegee to dry the glass. Cleaning may cause streaks when dried if the glass is exceptionally dirty. In this case repeat cleaning. Care should be taken with rubber squeegees as they can leave streaks that are extremely hard to remove if they are used incorrectly or are in poor condition.

3. Commercial glass cleaners (WINDEX®, GLASS PLUS®, etc.) may be used, but some may leave a film residue and may cause smearing. If these situations occur repeat the cleaning process using a vinegar based cleaner. Vinegar based cleaners tend to cause less streaking than other types of cleaning solutions. The most important consideration is to remove as much contamination from the coating as possible with the plain water wash before attempting final cleaning.

Special Cleaning

For unusually hard to remove contaminants such as crayons, wax, grease, markers and adhesives, special cleaners may be used to spot clean the glass. Denatured alcohol and isopropyl alcohol work on a variety of contaminants. For harder to remove contaminants such as crayons and markers, commercially available cleaners such as Goo Gone® and Goof Off® work well. After spot cleaning, the full glass surface should be cleaned as discussed above.

Never use ANY type of scraper, plastic or metal, on the coated surface.

Translucent Frit: Translucent frit is applied through a silk-screen process using one of the following colors: Simulated Sandblast or Simulated Acid Etch. Since the surface of translucent frit is rougher than a normal glass surface, clean conditions must exist during installation to prevent contaminants or sealants from begriming the glass. Velocity recommends wearing clean glass handling gloves when handling this product. In addition, use caution when working with sealants because liquid sealants that penetrate the porous surface may become difficult to remove once cured. The contractor should be aware of the rough surface so appropriate precautions can be taken by the other trades.

Guardian SatinDeco® Acid Etched Glass:

Once installed, SatinDeco does not require any special attention. Its extra-smooth finish doesn't allow body oils to penetrate the glass. This makes SatinDeco resistant to stains and fingerprints and easy to maintain.

Approved products for cleaning the SatinDeco acid etched surface:

SatinDeco does not require special cleaning or after-care products. Using a soft cloth, wet sponge or any mild, non-abrasive applicator; soak the glass surface with clean water and a mild soap solution. Immediately dry the glass surface with a lint-free cloth.

Guardian suggested product for cleaning the SatinDeco acid etched surface:

- Mr. Clean® Magic Eraser Pads®
- All purpose, non-abrasive, glass cleaners

A clean water rinse should be performed following the use of all cleaning products to ensure complete removal. Note that some cleaning products may not be safe on uncoated glass surfaces, metal, tile, marble, brass or other materials.

Avoid using the following on SatinDeco acid etched glass:

Abrasive brushes, razor blades, scrapers and other sharp objects which may scratch the glass must not be used on the etched or un-etched surface of SatinDeco glass products. Additionally, abrasive cleaners such as Ajax®, Comet®, rouge and cerium oxide, and hydrofluoric and phosphoric acids must not be used on SatinDeco acid etched glass.

Suggested Cleaners: We recommend mild, non-abrasive, non-alkaline cleaning solutions. The following have been used successfully in the past:

- Basic H® Classic
- Formula 409® Glass & Surface Cleaner
- Sparkle Glass Cleaner
- Windex® Original Glass Cleaner