

Technical Information

ATS-133 2005-07-15

Machine Cleaning Pilkington Energy AdvantageTM Low-E Glass Pilkington Solar ETM Solar Control Low-E Glass Pilkington Eclipse AdvantageTM Reflective Low-E Glass

The three products listed above are pyrolytically applied coatings with excellent abrasion resistance and durability. The nature of the outer surface of the Low-E coating makes it clean differently compared to uncoated float glass. Following are guidelines to obtain the best cleaning results in both horizontal and vertical glass washing machines.

- 1. A list of tested cleaning materials is included in Attachment 1. These can be used for machine washing, hand cleaning, and spot cleaning as required. Note this is not a complete list of all satisfactory materials.
- 2. The flat glass washer should be properly maintained in a clean state and in good repair. There will be no difficulty in machine washing the Pilkington Low-E glass products using a clean, properly maintained machine with the manufacturers recommended set-up instructions for the given glass thickness. This includes adequate water flow through all nozzles, using recommended detergent, water temperatures, proper brush height and rotation direction, and clean air knives and filters.
- 3. For best results, run the Low-E surface facing up, away from the glass support rolls. This will minimize any unnecessary contact with the Low-E coating. The coated surface is very hard and has a very fine texture which can abrade rubber or metal materials dragged across it leaving a deposit which would need spot cleaning.
- 4. The use of the washer manufacturers recommended glass cleaning detergent is preferred; however, suitable alternatives are listed below.
- 5. Ammonia-base and alcohol-base products are not recommended for spot cleaning by hand. These products tend to leave streaks on the coated glass surface when dried.
- 6. Do not use a razor blade, steel wool or other metallic objects to remove stubborn deposits. Razor blades leave metal particles on the coating that appear as scratches. Use one of the supplies listed in Attachment 1 to remove such deposits.
- 7. Lint free towels (paper or cloth) are recommended for touch-up drying.

If there is any question about the suitability of any type of cleaner, please contact the Architectural Technical Services Department of Pilkington North America, Inc. at: 419 247 4448.

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Suitable Glass Cleaners for PNA Low-E Coated GLASS

<u>CLEANER</u> <u>AVAILABLE FROM</u> <u>USED FOR</u>

MILD ABRASIVES:

"Sparkle" Cleaner C. R. Laurence Manual spot cleaning

& Stain Remover 800-421-6144

No. SP101

Soft Scrub Grocery Store Manual spot cleaning

Bar Keepers Friend Grocery Store Manual spot cleaning

SOLVENTS:

Acetone Hardware Store Organic Marking
Isopropyl Alcohol Hardware Store Organic Marking

isopropyr Alcohor Traitware Store Organic W

ACID:

Muriatic Acid (20% HCl) Hardware Store Metal Marking

"Acid MagicTM" Certol Int. LLC

Muriatic acid replacement Commerce City, CO Metal Marking

(Buffered HCl Acid) tel. 800 843 3343

OTHER:

Steel Glo Stainless Grocery Store Metal Marking

Steel and Copper Bottom Cleaner

GENERAL GLASS CLEANERS:

Basic H Shaklee Products Machine Washing

(419) 661-0707

Billco 79A Billco Mfg. Machine Washing

Detrex 79A (412) 452-7390

Alconox, Alcojet Fisher Scientific Machine Washing

(412) 562-8300

Sparkle Glass Cleaner, A.J. Funk Co., IL Grocery Store Hand Washing

Windex with Vinegar Grocery Store Hand Washing

50/50 Mixture Grocery Store Hand Washing

Vinegar & Water

The information contained in this bulletin is offered for assistance in the application of Pilkington flat glass products, but IT DOES NOT CONSTITUTE A WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE. Actual performance may vary in particular applications.