

EXSR Film Installation Guidelines

Premium Exterior Film with Pressure Sensitive Adhesive System (EXSR)

Madico's Premium Exterior Scratch Resistant Films (EXSR) are surface coated with an extremely hard acrylic coating to facilitate installation using conventional window film installation methods. Due to the extraordinary hardness of this coating, special care must be taken during installation to avoid creasing the film. Madico has established a minimum film thickness of .003" (3 mil) for these products to minimize the potential for creasing. The below guidelines are suggested practices to insure proper installation of these products. Installation of exterior films is not recommended on extremely windy days and must not be conducted **when temperatures fall below 40° F (5°C).**

1. Completely clean the window

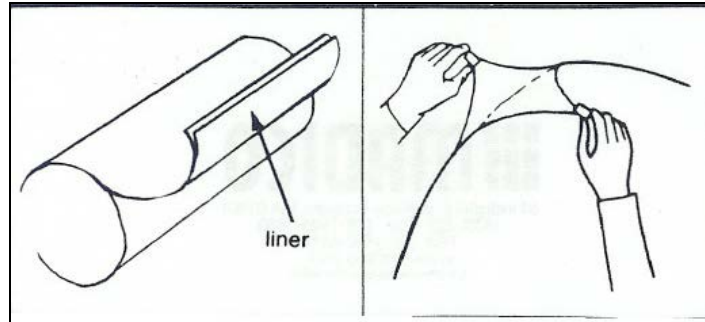
- a. Wash window with mounting solution and scrunge pad, and squeegee
- b. Wet again with solution and scrape entire surface of glass with razor scraper
- c. Wet window and squeegee again
- d. Wipe edges carefully with lint free towels to remove excess water and dirt
- e. Make certain all loose dirt is removed from glass and frame, repeat cleaning process if necessary

2. Film Preparation

- a. Remove end plugs and protective plastic sleeve from roll
- b. Replace plugs and replace film into box
- c. Measure window glass from inside of frame
- d. Film width should be cut ¼", 6mm, narrower than glass size
- e. Soak window thoroughly with wetting solution
- f. Pull film from box aligning top of film ~ 1/8", 3mm below top of glass
- g. Wetting solution should keep film in place on glass for cutting
- h. Cut bottom edge ~ 1/8", 3mm up from frame

3. Release Liner Removal

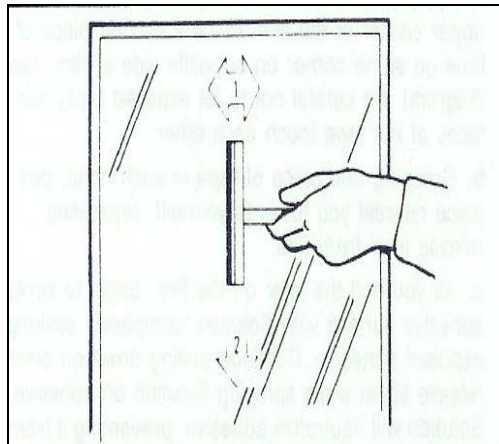
- a. "X" adhesive is pressure sensitive and sticks to anything it comes in contact with. It is protected with a disposable release liner that must be removed before application.
- b. Apply tape to one corner of film. Place a second piece of tape on the opposite side of the first piece.
- c. Pulling these tape pieces away from each other will begin the removal of the release liner from the mounting adhesive



- d. Once removal is begun, immediately begin spraying the exposed adhesive with wetting solution. Continue spraying adhesive surface while removing entire piece of release liner. Discard liner
- e. With adhesive surface exposed, spray adhesive and window one final time to insure that both surfaces are fully saturated

4. Film Application

- a. Holding film at upper corners being careful not to allow film to contact any other surfaces, place film on window with adhesive side against the glass. **Special care must be taken to avoid excessive bending or creasing of the film**
- b. The application solution will allow movement of the window film on the glass
- c. Slide the film to leave a 1/8", 3mm, to 1/4", 6mm, gap between the film and the frame. This gap is necessary to facilitate proper edge sealing of the film
- d. Spray the outside surface of the film for lubrication. Squeegee from top center of film toward outside edges to remove wetting solution from under the film. Trapped wetting solution is one of the most common causes of re-dos. Re-wet the surface of the film and continue to squeegee until you cannot move any more solution from under the film
- e. Use nothing harder than a 90 durometer squeegee on EXSR products



5. Edge Sealing

- a. All exterior film applications must be edge sealed to prevent moisture ingress under the film
- b. Only Dow 790, 794, 795, or 796 structural silicone or GE Momentive Silpruf SCS1200 building sealant may be used.
- c. Edge sealing should only be applied after the film has dried on the window. Typically between 5-7 days after initial installation
- d. Film should be sealed to the glass and window frame. A bead of sufficient size to overlap the film a minimum of 1/8", 3mm, cover the 1/8", 3mm, to 1/4", 6mm, gap between the film and the frame, and contact the glazing gasket or bead to insure a water tight seal must be used.
- e. The overall thickness (above the film) of the silicone bead **MUST BE** a minimum of 1/8".

6. Cleaning

- a. Cleaning should consist of hosing or power washing with a mild soap solution. If power washing, a low to moderate pressure should be used
- b. **Brushes or abrasives must never be used**
- c. For stubborn stains, a soft wipe may be used
- d. The EXSR products may be cleaned with a conventional squeegee