



## Film Installation Guidelines

### Installation Tips for Applicator Solution and Squeegee Techniques

#### ---Read Carefully---

Residual applicator solution under the film is one of the greatest but least recognized causes of film re-dos. These microscopic particles prevent the adhesive and film from making intimate contact with the glass and provide a starting place for bubbles, fingering, wash boarding, demetallization and other types of deterioration. Using proper applicator solution in the right concentration, along with the correct squeegeeing techniques and the squeegee will help prevent these problems.

#### Application Solution

Madico supplies 30-1-1 Window Solution Concentrate to be used as a slip agent and to neutralize adhesive during installation. This solution has been tested and found to be neutral to both the films and adhesives that Madico uses. However, proper concentration is very critical. Water evaporates from between film and glass quite easily, but the soapy portion of the solution can leave some residue. To minimize this, the recommended dilution is 30 parts water to one-part solution. **NEVER** use more solution than this and use less if possible. In fact, use as little of the concentrated solution as possible while still maintaining the ability to move the film on the glass.

#### Squeegee

The squeegee and squeegee technique also help remove applicator solution from between the film and the glass. The best combination of squeegee firmness and flexibility is found in Madico's SUPER SQUEEGEE. It is highly recommended for **any** type of installation. When squeegeeing be sure to push the solution out from under the film ahead of the blade, rather than pulling it behind, as is commonly done when cleaning windows. **ALWAYS** lubricate the front of the film first, then use as much pressure as possible on the squeegee to remove all of the solution. Sufficient lubrication will prevent this squeegeeing from causing scratching. These techniques will ensure more outstanding installations and **fewer** callbacks and re-dos.

For slow drying products that contain an aluminum layer (e.g. safety films, low back shine films, outdoor weatherable films, etc.) it is imperative that the applicator solution be squeegeed out thoroughly during installation. Retained water can lead to demetallization failure. Inspect the installed film closely and squeegee out any water pockets that are observed. Contact your local distributor for additional information.

#### Exterior Film Applications

Films designed for exterior application require the use of edge sealant to protect the film from moisture penetration and UV degradation at the edges. After the film is installed, the edges need to be sealed with either GE Sifruf or Dow Corning 795 Silicone Building Sealant. No substitutes are permitted without prior approval. Warranties will not be honored unless the film has been properly sealed.

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