



Modular Poly Clear 2 mil Installation Guidelines

Introduction

Scratch-resistant (SR) top coats, commonly used in window films, are the outer layer that the installer/end-user interacts with when mounting or cleaning the mounted window surface.

In particular, the SR coat protects the film from being scratched when using the squeegee during water removal at the installation, where a fair amount of force is applied.

The Modular Poly Clear 2 mi film does not contain any scratch resistance (SR) coating, easily enabling stacking other solar films on top without any adhesion issues or visual defects.

Therefore, the installation process of the modular product has to be carefully performed to prevent the film from being scratched during the installation process

Check adherence to the substrate before applying the film to unidentified or SR-coated rigid plastic glazing material in the attached appendix.

Installation process steps

Substrate preparation:

1. Spray the wetting solution on top of the substrate and remove the water using the glass wiper.
2. If any stubborn dirt/particles remain on the substrate, gently remove it with a cloth (careful not to scratch the substrate).
3. Spray the wetting solution on top of the substrate again.
4. Use the glass wiper to wipe all the water from the substrate.
5. Spray the wetting solution on top of the substrate (make sure to cover the entire surface area).

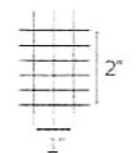
Installation of the Modular Poly Clear 2 mil:

6. Cut the film to the substrate size - pay attention, as poly substrates are easily damaged by sharp objects such as blades.
7. Spray the wetting solution atop the release liner to eliminate any static charge that might pull dust particles to the film.
8. Remove part from the release liner and spray the wetting solution on the exposed adhesive.
9. Remove the rest of the liner while spraying the wetting solution on top of the adhesive. **Put the liner to the side and keep it for the next steps.**
 - a. **If applicable, it is recommended to carefully roll down the liner and place it to the side to prevent any dirt from being caught in the film.**
10. Lay the film on the substrate and adjust it accordingly.
11. Place the removed release liner on top of the film. The liner will be used as a surface protection buffer to prevent the film from being scratched during water removal.
12. Spray wetting solution on top of the liner and remove the water using a heavy-duty squeegee. You can find detailed instructions in the following page.

Crosshatch Adhesion Test for Coated or Unidentified Substrates

To check Modular Poly Clear 2 mil film adherence to coated substrates, the following procedure should be performed:

1. Clean a small, non-visible surface area (3 ft²) of the plastic sheet, per the instructions above. Cut a small piece from the film (2.5 x 2.5 ft), and remove the release liner.
2. Install the film onto the cleaned surface by dry installation: Adhere one corner of the film to the plastic sheet surface, and using a soft squeegee, carefully position and smooth the rest of the film sample, avoiding air bubbles as much as possible.
3. Smooth out any air bubbles.
4. Wait at least two hours for sufficient initial tack.
5. Use a sharp Stanley knife to cut a small crosshatch lattice shape in the center of the film (taking care not to score the substrate), dividing the small area into 10 relatively even squares, as in the diagram:
6. Cut a ¾" long strip of any 1" sticky tape, and adhere well, using your fingertip to firmly smooth the tape onto the lattice, leaving about ¼" from each end.
7. Peel the tape swiftly from bottom to top at a 90o angle.



Evaluation: If no film is removed, adhesion is good enough to continue to a trial installation. However, if the tape peels off any squares from the film, there is insufficient adhesion and installation on the coated substrate is not recommended. In either case, we recommend repeating the test.