



Manual Anti-Reflex Coating

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Tools and materials

- felt squeegee
- scapel knife
- concentrated detergent, containing no lotions, soaps, oils, waxes or enzymes
- spray bottle

Registration Marks

If the film is not premarked for registration, you can make your own registration marks using a lead pencil, marking pen, or small pieces of masking tape.

Note: DO NOT use chalk, chalk line, or a grease pen. Film will not adhere to chalked areas or those marked with a grease pen.

Substrate-Specific Information

Glass

! Caution

The risk of glass breakage increases when large, dark-colored areas of glass are exposed to direct sunlight.

Helpful hints

Work area

Make sure the work surface and surrounding area are properly cleaned to avoid contaminating the graphics.

Temperature

Make sure the film, air and surface temperatures are at least 60° F (16° C) and are within the application temperature specified in the film's Product Bulletin. If you are applying a graphic at or near the minimum application temperature, the adhesive bond will develop more slowly than in higher temperatures. Thoroughly resqueegee the graphic as directed in the application procedure.

Handling

DO NOT allow the liner to get wet before removing it from the film. A wet liner is difficult to remove.

Important: It is imperative not to bend the foil!

Squeegee

A large window squeegee may be used to remove the water solution. However, felt squeegee with a low friction sleeve SA-1 must be used with firm, overlapping strokes. Re-squeegee the graphic after 24 hours.

Application tape

To remove an application tape, if used, always remove it at an angle as close as possible to 180 degrees and immediately re-squeegee the film.

Keep newly fabricated screen faces out of direct sunlight for at least 24 hours. This allows any remaining moisture to dry evenly without wrinkling the film.

Application procedure

Detergent-water solution

Prepare a solution of 1/3 teaspoon (2 ml) of concentrated detergent, containing no lotions, oils, waxes or enzymes, for each 1 quart (1 liter) of clean, cool water. One quart of solution is usually enough to complete a single small- or medium-sized graphic. After mixing the solution, pour some or all of it into a spray bottle.

Apply the foil

Note: Keep the liner dry until you are ready to remove it.

1. If possible, lay the substrate face up on a clean surface.
2. Spray the substrate with solution.
3. Wipe off the film with a clean, lint-free cloth.
4. Lay the film, liner side up, in a dry location near the wetted surface.
5. Lift one corner of the liner while spraying the solution onto the exposed adhesive.

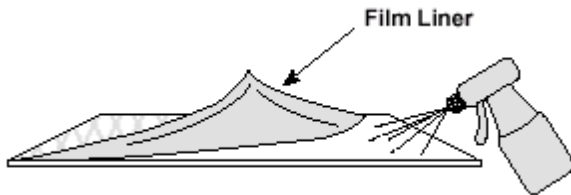


Figure 1. Lift corner; Spray solution

1. Continue to remove the liner and spray the solution. By the time the liner is completely removed, the entire adhesive surface should be wet. Spray on more solution, if necessary. Note: Depending upon the size of the graphic, you may need another person to help you complete the next step.

2 Lift and turn over the film, adhesive side down, onto the wetted substrate and correctly align with any registration marks. See Figure 2.

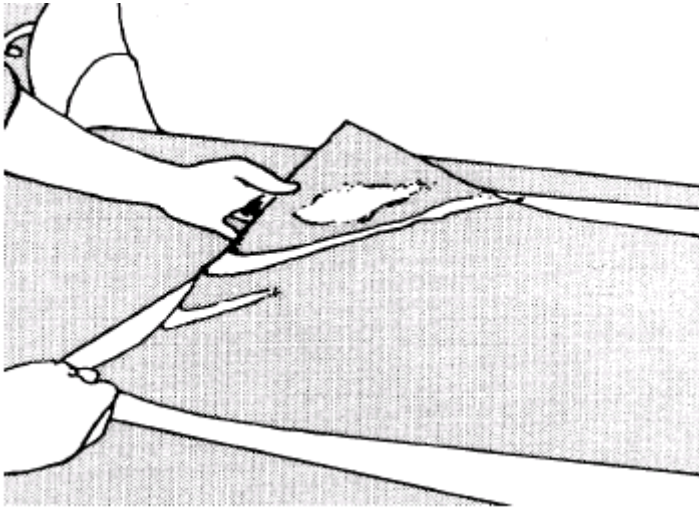


Figure 2. Lifting and turning over the film

3 Spray the top of the glass and the film with the solution to reduce friction when you squeegee the film.

4. To smooth out bubbles on a small section of film, use gentle, overlapping strokes of the felt squeegee and sleeve from the center of the graphic out to the edge. See Figure 3.

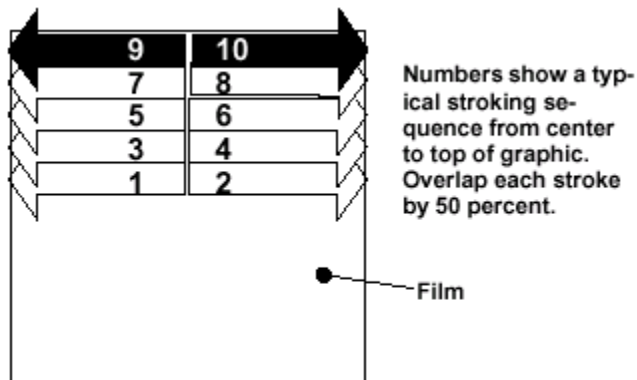


Figure 3. Smoothing a small graphic

5. To smooth out bubbles on a large section:

Use a large window squeegee and very light pressure to smooth out the entire graphic, starting at the center and working toward the edge, in the order shown in Figure 4. When you finish this step, the film should be flat on the substrate and most of the water pushed out.

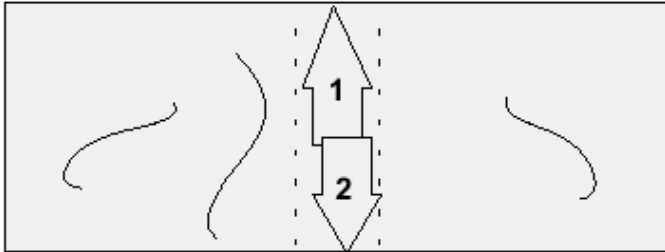


Figure 4. Squeegeeing the center of a large Screen

6. Use a small squeegee and firm, overlapping strokes to resqueegee from the center of the graphic to the edges. When you finish this step, all of the water and as many bubbles as possible should be removed.

6a. Spray the entire top of the film with more solution.

b. Use the applicator to apply firm pressure to the entire graphic, beginning in the center and working toward the edges in overlapping strokes.

c. Wipe dry the entire surface.

Cutting and weeding

If possible, cutting and weeding should be performed before application to prevent damage to the substrate. However, if necessary, you can cut and weed within 90 minutes after application. The adhesive bond builds with time and weeding becomes more difficult after 90 minutes.

Remove the foil

To weed, carefully hold a corner of the weed at a 90 degree angle and pull it with sharp, short jerks.

If necessary, warm the surface slightly to ease weeding and reduce adhesive transfer to the substrate. Very little heat is required. For instance you can use a low-wattage heat gun or place the back side of the substrate on a 100° F (38° C) surface for 10 seconds.



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