

## Outside Weatherable Film Installation

Solar Gard®'s outside weatherable films (OSW) are coated with a very durable hard acrylic coating to make an easy installation possible using standard window film installation methods. Due to the hardness of this coating, special care must be taken during installation to avoid creasing the film. Additionally, proper edge sealing is required after installation.

Below are the practices to insure proper installation of this product. Installation of this product is not recommended on extremely windy days or when temperatures fall below 40° F (5°C).

### 1 Completely clean the window

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

### 2 Film preparation

- Measure window glass from inside of frame.
- Film width should be cut 1/4" (6mm) narrower than glass size.
- Soak window thoroughly with mounting solution.
- Pull film from box aligning top of film - 1/8", (3mm) below top of glass.
- Mounting solution should keep film in place on glass for cutting.
- Cut bottom edge - 1/8" (3mm) up from frame.

### 3 Release liner removal

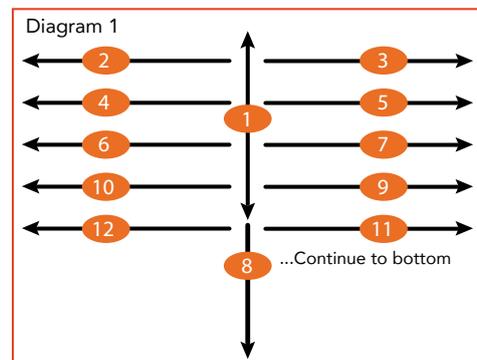
- The OSW film adhesive is pressure sensitive and sticks to anything it comes in contact with. It is protected with a disposable release liner that must be removed before application.
- Remove one corner of the release liner from the mounting adhesive.
- Once removal has begun, immediately begin spraying the exposed adhesive with mounting solution. Continue spraying adhesive surface while removing entire piece of release liner. Discard the liner.
- With adhesive surface exposed, spray adhesive and window one final time to insure that both surfaces are fully saturated.

### Film application

- 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.

- The application solution will allow movement of the window film on the glass.
  - Slide the film to leave a 1/8" (3mm) gap between the film and the frame. This gap is necessary to facilitate proper edge sealing of the film or wet glaze attachment when installing safety film.
  - When squeegeeing the film always ensure the surface is well lubricated. Exterior conditions may require spraying additional mounting solution. Spray the outside surface of the film. Squeegee from top center of film toward outside edges to remove mounting solution from under the film (Refer to Diagram 1). Trapped mounting solution is one of the most common causes of re-dos. Use both hands and your body weight to your advantage and lean into the squeegee as you push. Overlap the previous pass by 50% each time. As you squeegee, angle the squeegee blade slightly away from the previous path. Use slow strokes, applying a good amount of even pressure through the entire pass. The squeegee blade itself should be angled 30 to 45 degrees from the glass surface. The goal is to remove as much mounting solution in a single pass.
- e. Please do not use squeegees harder than a 90 durometer squeegee on Solar Gard OSW products, for standard 2mil products - Blue Max part# 0615B, for safety film products - Aluminum squeegee part# 0608-6.**



### 5 Edge sealing

- All exterior film applications must be edge sealed to prevent moisture ingress under the film and maintain warranty protection.
- Only approved edge sealants may be used including Dow Corning® 995, 795 or 790, GE SSG4000/4800J, Silicone II and Silpruf®, DuraSil™, Durasil® W15, and Tremco® Tremsil 600 (Clear). If an attachment to frame or adjacent glass is necessary, then only the GE SCS2000 Silpruf,

Ultraglaze SSG4000, or Dow Corning 995 may be used. Any substitute sealant must be preapproved

- c. Edge sealant should only be applied when both glass and frame surfaces are completely dry, and free of dew or frost. Generally, a two hour time period after film installation should be allotted prior to sealant application. Area should be inspected for any residual water and/or moisture that can prevent proper adhesion of sealant.
- d. All films edges must be covered including seams. A minimum of an 1/8" (3mm) to 1/4" (6mm) bead width should be applied across the films edge.
- e. An installation for the purpose of glass retention must be attached to the frame using the wet glaze method. The frame area must allow up to a half inch contact around the entire border. Refer to "Wet Glaze" tech bulletin #PDF0258BB for installation instructions.

Please note that a cartridge or sausage gun will be required to expel sealant.

### Window perimeter table

Please use this table to estimate the approximate amount of sealant that will be needed.

In determining how much sealant will be needed, please select the height and width of all windows to be filmed. Select the bead size of the sealant in order to estimate the amount of sealant needed.

#### Estimated sealant

Bead size	Estimated coverage per 10.4 oz cartridge	
3mm or 1/8"	114 ft (35 m)	or 6 windows (26.9 ft <sup>2</sup> )
4.5mm or 3/16"	49 ft (15 m)	or 2.5 windows (26.9 ft <sup>2</sup> )
6mm or 1/4"	32 ft (10 m)	or 1.7 windows (26.9 ft <sup>2</sup> )

The amount of sealant is dependant on the bead size.

#### Window perimeter chart

	Window width (in lineal feet)					Window width (in lineal meters)						
	1	2	3	4	5	0.30	0.60	0.91	1.21	1.52		
Window height (in feet)	1	4	6	8	10	12	0.30	1.21	1.82	2.43	3.04	3.65
	2	6	8	10	12	14	0.60	1.82	2.43	3.04	3.65	4.26
	3	8	10	12	14	16	0.91	2.43	3.04	3.65	4.26	4.87
	4	10	12	14	16	18	1.21	3.04	3.65	4.26	4.87	5.48
	5	12	14	16	18	20	1.52	3.65	4.26	4.87	5.48	6.09
	6	14	16	18	20	22	1.82	4.26	4.87	5.48	6.09	6.70
	7	16	18	20	22	24	2.13	4.87	5.48	6.09	6.70	7.31
	8	18	20	22	24	26	2.43	5.48	6.09	6.70	7.31	7.92
	9	20	22	24	26	28	2.74	6.09	6.70	7.31	7.92	8.53
	10	22	24	26	28	30	3.04	6.70	7.31	7.92	8.53	9.14

These tables provide the lineal measurement of the perimeter of the window.

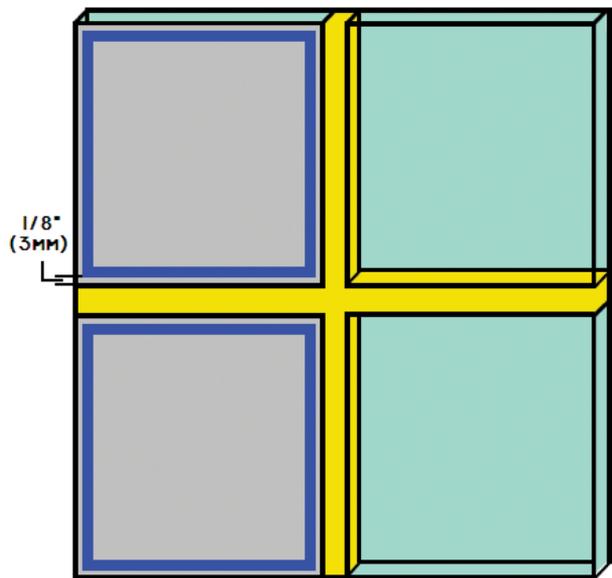
## Application of Sealant

### Step 1: Preparing the caulking gun:

Sealant coverage is only needed to cover the exposed edge of the film. With this in mind, the tip of the caulking gun should be cut to allow the correct amount of sealant to be discharged from the gun. Make certain to use drop cloths in any areas where the sealant could possibly drip.

### Step 2: Preparing the film and glass:

Wipe the area to be covered with a cloth and isopropyl alcohol. For curtain wall application, a low tack tape may be used to protect from excess sealant or where tooling may be necessary. The low tack tape should be applied a minimum distance of 1/8" (3mm) away from the films edge.



### Step 3: Applying the sealant:

Place the tip of the caulking gun so that the center of the opening is resting on the film edge. Position the caulking gun at approximately 15° to 30° from the glass and apply sealant. Do this in as continuous a manner as possible avoiding stops and starts. Apply sealant to entire perimeter of the film, making certain that sealant is completely covering the films edge. Any residual sealant can be wiped away with a dry towel if done quickly. If not, then Xylene can be used to clean away thesealant that the towel could not remove. If tape was used, simply remove the tape after tooling.

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