

Dealer Installation Guide



Install Clearshield Pro ACTIV in a clean, dust free environment above 10° C.

» GENERAL PREPARATION:

Install Clearshield Pro ACTIV in a clean, dust controlled environment above 10° C.

1. Dosage for diluted slip solution -

in first spray bottle

650 ml of water + 0,5 screw cap (2,5-5 mm) of FilmApp (dosage depending on water hardness) + 50 ml of Accelerator.

2. For undiluted solution -

in second spray bottle

Simply remove the nozzle from the second ST0721 bottle and fix onto Accelerator bottle.

3. Vehicle surface

All surfaces to be protected by Clearshield Pro ACTIV, should be cleaned and free from contamination and any existing wax. Wipe the surface down with the slip solution and a lint-free microfibre towel. For best results, clean the surface with a clay bar to remove embedded surface contamination and existing wax. Wipe the surface down using the tack solution. Spray slip solution and remove all remaining lint and fibres that may have been left behind by using a Clear Max squeegee. All edges to be wrapped should be prepared with the same procedure.



» TOOLS NEEDED:

- Pressure Sprayer (ST0694) or Trigger Sprayer (ST0721)
- Clear Max (ST0591-9)
- PPF Black Out Squeegee (ST0462)
- Snap off Blade Can (ST0547)
- Olfa knife (ST0501AL)
- Snap off Knife (ST0522), Blade (ST0523)
- MACTac Felt Squeegee (ST0655)
- Heat Gun 220V (STEX90960-002)
- FilmApp (STEX0330)
- Accelerator (STEX0333)

These tools are also needed - you can buy them through other providers:

- Clay Bar (fine/extra fine)
- Microfibre towels
- Dust-free wipes

« Installation Process

WELCOME TO THE ACTIV DRIVING EXPERIENCE.

- Active self-healing technology – advanced polymer technology is immediately triggered once scratched or damaged (no heat required)
- Hydrophobic, stain-resistant topcoat – invisibly guard your vehicle's finish from damage caused by water, bug splatter, bird droppings and other elements
- Luxury appearance – maintain a glossy, just-waxed look
- Warranty coverage – 10-year protection from yellowing, hazing, cracking, peeling and molding
- Higher vehicle resale value – keep your car looking as good as the day you purchased it
- SPF 285+ – prevent UV damage to and fading of factory paint
- Expert installation – count on Solar Gard's professional dealer network

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CLEARSHIELD® PRO ACTIV™

SELF-HEALING PAINT PROTECTION FILM



Active self-healing technology, no heat required.

INSTALLATION GUIDE AND SPECIFICATIONS

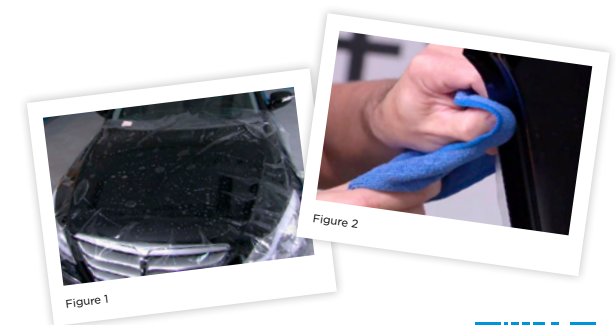
The Process



CLEARSHIELD PRO ACTIV has a protective capsheet and a liner. Important to remove both prior to installation.

» INSTALLATION PROCESS:

- a. Spray your hands with slip solution. Remove the backing from the film while spraying slip solution on the adhesive and the area in which Clearshield Pro ACTIV will be applied.
- b. Position the film so it covers the entire surface to be protected. (See Figure 1.)
- c. Spray the top coat with the slip solution and squeegee the centre using the Clear Max or Clear Max squeegee.
- d. Stretch the film as necessary to remove fingers in heavily curved areas.
- e. Continue to squeegee out the slip solution towards the edges as you stretch the film.
- f. Coupez l'excédent de film avec un couteau ou des ciseaux OLFA jusqu'à un pouce, en chevauchant les bords de la zone protégée.
- g. Dry the entire surface with a microfibre towel. Inspect for any debris under the film.
- h. Wrap a microfibre towel around your finger and carefully press the film down to the surface as you wrap the edge to prevent air pockets. (See Figure 2.) A heat gun on a low temperature setting <260°C can be used to help dry and seal the edges preventing water or dirt ingress under the film.
- i. Repeat this procedure for all patterns.



INSTALLATION PROCESS FOR PRECUT PATTERNS »



Installation Guide & Tools »

	TEST ITEM	TEST METHOD	NOMINAL VALUE
PHYSICAL PROPERTIES	Cap sheet	Micrometer	1.5 mil (40 micron)
	TPU thickness	Micrometer	6 mil (150 micron)
	Product thickness (TC+TPU+PSA)	Micrometer	8 mil (200 micron)
	Tensile stress at break	ASTM D882	> 2,200 lbs/in ² (> 15 MPa)
	Elongation at break (%)	ASTM D882	> 250%
	Break strength	ASTM D882	> 45 lbs/in (83 N/cm)
GLOSS	Gloss	Adhered to paint panel, 60° gloss per ASTM D523	92 GU
ADHESION	Initial dry peel adhesion	Film applied dry, cured for 20 min at 72°F (22°C)	1,290 g/in (5 N/cm)
	Initial wet peel adhesion	Film applied wet, cured for 20 min at 72°F (22°C)	1,340 g/in (5 N/cm)
	After heat age peel adhesion	Adhered to paint panel, 3 min at 248°F (120°C)	2,700 g/in (10 N/cm)
	Adhered state shrinkage	Adhered to paint panel, 48 hrs at 176°F (80°C)	No shrinkage
AGING TEST	Heat aging	Adhered to paint panel, 16 days at 176°F (80°C)	Pass, NDE
	Accelerated weathering	ASTM G155 Cycle 7- 3,000 hrs	Pass, NDE
IMPACT RESISTANCE	Chip resistance	SAE J400 (Gravelometer)	Pass, NDE
CHEMICAL RESISTANCE	Soap & water	Samples submerged in chemical for 24 hrs followed by visual inspection.	Pass, NDE
	Isopropyl alcohol		Pass, NDE
	Mild acid (pH 9+)		Pass, NDE
	Windshield washer fluid		Pass, NDE
	Unleaded gasoline	Samples submerged in chemical for 30 minutes followed by visual inspection in 24 hrs.	Pass, NDE
	Motor oil		Pass, NDE
STAIN RESISTANCE	Sharpie marker	Lines were drawn on the film with a permanent Sharpie marker. Each line was wiped with a dry towel at 5- and 15-min and 24-hr intervals.	No visual residue
SELF-HEALING	Brass brush	Samples were scratched in a circular motion with a brass brush, then visually inspected @15-second intervals until scratches were no longer visible.	< 1 minute, no visible scratches
		Samples were scratched in a circular motion with a brass brush, then exposed to mild heat and visually inspected.	No visible scratches

HC = Hard Coat, TPU = Thermal Plastic Polyurethane, PSA = Pressure-Sensitive Adhesive, Adhesion: 180° peel on Instron tensile tester, NDE: no detrimental effect
 Note: all values are nominal values and should not be used for specification purposes.

Shelf life:

Solar Gard recommends using Clearshield Pro ACTIV within one year from date of purchase.
 Optimum storage conditions for Clearshield Pro ACTIV are 40°F (4°C) to 90°F (32°C), and 40% to 60% relative humidity.