

Manual for Superhydrophilic Self-cleaning Coat

1. Necessary items

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| * Glass coat | * Specialized cleaner | * Degreaser |
| * Buffer | * Towel | * Car wash sponge |
| * Polisher | * Electric cord | * Buffing pad/sponge |
| * Bucket | * Spray bottle | * Water hose |
| * Vinyl masking material (protective material with masking tape at one end) | | |
| * Applicator cloth or pad | * Masking tape | * Tornador |

2. Points to Remember

- Do not apply the product during direct sunlight (for automobiles).
- Because you will be using a polisher, some about of the liquid product will fly around the car. You will need to confirm that area around the car and remove anything that might be damaged.
- When the body of the car is hot, please cool it down by applying cool water prior to beginning work on the car.
- When the solution comes into contact with portions of the car other than the body (such as deteriorating rubber), on rare occasions the solution causes a substantial change in color. Before beginning application, do a test application on a small portion that will not be noticeable. If necessary, masking tape off any areas that might change significantly in color.

3. Washing the car (the car wash sponge)

- Purpose is to wash off dust and dirt stains that have attached to the car body.
- Wash with the sponge while using generous amounts of water over the body of the car.
- Rinse the car thoroughly when the washing is completed.
- There is no need to dry the car or to remove the water.

4. Removal of foreign matter (applicator pad)

- Purpose is to remove iron particles (dust) that is stuck to the surface of the car body.
- With the applicator pad in one hand, use the other hand to confirm that the roughness has been polished away.
- When there is water on the surface:
 - With the applicator pad in the palm of the hand, rubbing up and down and then from side to side two to three times each is usually sufficient to remove iron filings or dust.
 - When the surface of the applicator becomes soiled, fold it so that

the dirty portion is on the inside and work with the clean surface.

- d. Rinse with water again after finishing.
 - e. Maintain the applicator cloth or pad by keeping it in water and not letting it dry out.
5. Taping off the surface (using masking tape and plastic sheets)
- a. Purpose is to cover those areas you do not want to wash or cover with cleaning solvent.
 - b. Tape off or cover up areas that are difficult to clean by hand such as windshield wipers and the front grill as well as areas where it might be difficult to remove the cleaning solvent such as older rubber sections.
6. Removing dirt (specialized cleaner and car wash sponge)
- a. Purpose is to clean those areas where the polisher and buffer could not reach.
 - b. Apply the cleaner to the sponge and rub onto the car.
 - c. Rinse the cleaning solution off with water.
7. Polishing (specialized cleaner, polisher, sponge buffer, liquid sprayer)
- a. Purpose is to polish the surface of the car body.
 - b. Clean a sponge with water and place in the polisher.
 - c. Rotate the sponge once in the air to get rid of excess water.
 - d. Place cleaner on the sponge in the amount about the size of a silver dollar.
(One portion of the procedures set out below.)
 - e. In order to keep the following procedures simple, please perform them one at a time in the order described.
 - i. Right half of the roof, → right half of the bonnet → right half of the front fender → right front half → right side → trunk and rear → left half of the roof → left half of the bonnet → left half of the front fender.
 - ii. When the buffer pad dries out, the cleaning solution will become imprinted into the car paint. Always keep the buffer pad moist when using. Never permit it to dry out during use. Apply water to the sponge and the surface of the car with a spray bottle.
8. Water Rinse (Car wash sponge)
- a. Purpose is to rinse the cleaning solvent that has been scattered by the polisher so that it does not damage other parts of the surface.
 - b. Take off the masking tape and use ample water in rinsing the car.
9. Removing grease from glass surfaces (degreasing solution, buffer)
- a. Purpose is to remove all grease from glass surface in preparation.
 - b. Spray water onto the surface of the glass.
 - c. Cut a buffing pad to the proper size.
 - d. Apply degreasing solution in the amount of about a quarter in size to the

- buffing pad.
- e. Rub the surface of the glass and remove the grease.
 - f. When you spray water over the surface where the degreasing agent has been rubbed and rub on more of it, wherever the grease has not been removed will repel the degreasing solution and appear as holes or gaps. If this happens, repeat the process of applying the degreasing solution and rubbing it until you can confirm that the areas repelling the solution have disappeared.
 - g. When you have finished the entire surface, rinse it down with water.
10. Wiping off the water (with a clean towel that is free of grease)
- a. Purpose is to wipe off all water because the coating will not adhere to damp areas.
 - b. Wipe off all glass and car body surfaces with a towel.
 - c. Open doors, trunk and fuel covering and wipe all moisture.
 - d. Blow away all water built up on the front grill and completely dry.
11. Cover with plastic (vinyl plastic sheets and masking tape)
- a. Purpose is to protect those portions of the car where you do not want to apply the hydrophilic coating.
 - b. Cover areas where coating is not desired with plastic sheets held down by masking tape.
12. Applying the hydrophilic coating
- a. Using the specialized spray gun, please follow the following applications instructions.
13. Removal Method
- a. Put the SCV Stripping Agent onto a sponge and spread on the surface where SCV is to be removed.
 - b. When SCV turns white and begins to curl up, apply ample amounts of water and rinse off.
 - c. Wipe off the water to complete.
 - d. Take precaution not to permit the stripping agent from coming into contact with surfaces where you do not want to remove SCV.
14. Points requiring attention
- a. Do not breathe in or swallow either the SCV or the stripping agent.
 - b. Ventilate thoroughly after using the product and because it is combustible avoid sources of heat.
 - c. Avoid locations with direct sun and store in a cool, dark place.
 - d. In the event some of the solution leaks out, soak up with tissues or rags and dispose of properly.
 - e. Do not use in unexpected ways or for other purposes.
 - f. Do not permit buffing pads to become dry during use, but store with

plenty of water.

15. Emergency or First Aid Measures

- a. If the solution enters the eyes, without rubbing the eyes, rinse thoroughly with ample water and consult a physician immediately.
- b. If the solution is swallowed, consult a physician immediately.
- c. If you become sick or dizzy while working with materials, immediately cease working and rest in a well-ventilated spot. If condition does not improve, consult a physician.
- d. After completion, wash thoroughly with soap and water.