

Coating procedure for Windscreens

Overview

CCM provide several coatings which are suitable for coating windscreens. The preparation and application procedure is the same for all of these nano scale coatings.

Preparation

It is essential that the windscreen is completely clean before the application of the coating.

It is stressed that in many instances the end user considers that a windscreen is clean after wiping the surface with a cleaning agent until it looks clean.

The preparation required before applying our coatings is much more thorough. On average it takes a minimum of 5 minutes to clean a windscreen.

1. We recommend that the windscreen is washed thoroughly with Biosativa® bio cleaner from CCM, mixed to a ratio of 1 to 15 (1 part Biosativa®, 15 parts water).

If you do not have access to Biosativa®; it is suggested that the windscreen is washed thoroughly with water and a microfiber cloth.

If you do choose to use a cleaning agent other than Biosativa®, ensure that it does not leave any tensides on the surface as residues prevent the layer of SiO² (pure glass) from bonding. The layer formed is only 100nm thick (500 times thinner than a human hair). It is massively durable but as can be imagined this ultra-thin layer can only bond efficiently to a completely clean and dry surface.

2. This initial cleaning will remove heavy contamination such as insect residue, traffic film etc. It should be noted that the use of Biosativa® will significantly enhance this initial cleaning process. We do not suggest using washing liquid as this places tenside residues on the windscreen.
3. Thoroughly rinse the windscreen with clean water.
4. Dry the windscreen with a clean cloth or suitable kitchen roll/absorbent paper. Please note that the perimeter of the screen is often heavily soiled and also water drips remain in this area. Wipe the perimeter of the windscreen ensuring that any soling agents are not spread to the rest of the windscreen. Finally wipe the windscreen wiper blades to remove heavy contamination.

5. Deep cleaning with alcohol. All windscreens differ in the amount of contamination held within the micro scratches (all screens have such scratches). Wipe the screen with the supplied wipe or use a suitable alcohol cleaner. The cleaner must be free of any additional polishing agents. Continue to wipe the surface until the screen is completely clean. Ensure correct safety controls are followed when using alcohol. Follow the MSDS guidelines. Test alcohol cleaners such as IPA on an inconspicuous area.
6. After cleaning with the alcohol based wipe, allow the screen to dry and then buff the screen with a micro-fibre or similar clean cloth.
7. **Application**

Apply the coating on to the windscreen using either a pre-impregnated wipe or apply the coating liquid to a suitable lint free cloth. Working quickly, ensure full coverage of the screen. Wipe with both vertical and horizontal action to ensure full coverage. It is recommended that the outer edge of the screen is wiped at the last moment to avoid any possible contamination of the central area of the screen. Finally wipe the coating cloth along the wiper rubber. The pre-impregnated wipe from CCM contains 6ml of coating. This is optimised for coating a windscreen. If you are using your own wipe we recommend that 10ml is applied to a lint free wipe which is approximately 150 x 150 mm. As a final action, drag the application cloth along the wiper blades.

8. Allow the coating to dry for approximately 5 to 30 minutes. (5 minutes in warm weather eg. 25°C... 30 minutes in cool weather eg. 10°C).
9. After application the surface may look slightly “cloudy”. Buff the surface with a clean micro-fibre to remove any residue which contributes to the cloudy appearance.
10. The coating takes 10 hours to fully cure but the windscreen can be exposed to rain one hour after application. Avoid using the windscreen wipers within the first 10 hours, but in some instances one needs to use the wipers. This may slightly reduce the length that the coating remains in place.

Do not apply the coating in damp or very humid conditions.

Do not apply the coating in hot, direct sunlight.

Do not apply our SiO₂ based coating on to windscreens which are coated with other agents such as car waxes, polishes etc.

Do not apply the coating to hot windscreens (in hot regions of the world it is best to apply the coating early in the morning or in the evening, when often the windscreen is cooler). Do not apply when the air temperature or glass temperature is greater than 30°C.

Do wear gloves as a fingerprint can be 100 times thicker than the coating.