Ceramic Pro ONE Installation Manual

This document is compatible with:
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This manual provides information on the recommended application of Ceramic Pro ONE and the procedures associated with its preparation, curing, and post-application care.

1. Work Area, Equipment & Materials

Before beginning the installation, make sure that the work area meets the required conditions and that all products, tools, equipment, consumables, and protective equipment required for the procedure are available.

Work Area

- Clean, enclosed, dust-controlled work area
- Suitable temperature and humidity conditions in accordance with the product TDS
- Adequate ventilation
- Climate control where required
- Sufficient lighting for application and final surface inspection

Products

- Ceramic Pro Spectrum products required for surface preparation and final cleaning
- Ceramic Pro Nano-Primer, where required
- Ceramic Pro ONE

Tools & Equipment

- Ceramic coating applicator block
- Suitable inspection lighting
- Clean green microfiber application cloth / towel
- Thermometer and hygrometer for monitoring application conditions

Consumables

- Microfiber towels suitable for coating levelling and final buffing
- Replacement green microfiber application cloths / towels as required

Personal Protective Equipment

- Protective gloves
- Eye protection
- Respiratory protection, where required by the applicable SDS or working conditions

Tips

Climate Control. Temperature and humidity directly affect the reaction rate of the coating. Higher temperature and humidity generally accelerate product behavior and shorten the available application and levelling windows. Maintaining controlled environmental conditions helps keep installation timing predictable and consistent from one application to another.

Applicator Selection. Ceramic Pro ONE is designed for controlled applicator installation. The recommended method uses a clean green microfiber application cloth wrapped around a firm applicator block. The applicator should distribute pressure evenly and transfer product consistently without excessive absorption.

Tool & Product Placement. Avoid placing bottles, applicators, or towels on the vehicle, including at the base of the windshield or on other convenient ledges. Reaching across treated surfaces or accidentally dropping an item increases the risk of damaging or contaminating the coating. A dedicated detailing cart positioned within easy reach is strongly recommended to keep all required products and tools organized, accessible, and away from the vehicle.

Inspection Light. A good handheld inspection light is an essential application tool. Use a powerful, lightweight light with sufficient battery life for a full working day and, preferably, multiple lighting modes. Proper inspection lighting makes it much easier to identify high spots, uneven levelling, residue, and other small defects that can be missed under normal shop lighting.

Ambient Curing. Ceramic Pro ONE is designed for ambient curing and does not require an infrared lamp or other external heat source. Maintain stable environmental conditions and allow the coating to cure naturally unless a future product-specific procedure explicitly specifies an alternative curing method.

Microfiber Selection. Different application stages require different microfiber properties. For product application, use a low-absorbency microfiber that transfers the coating efficiently to the surface rather than retaining it. For levelling and residue removal, use a more absorbent microfiber capable of collecting excess product cleanly. Using the wrong type can increase product consumption, reduce applied quantity, or leave residue and uneven areas. In all cases, choose soft, lint-free, non-shedding microfiber without hard stitched edges that could mark the surface.

Do Not Overuse Microfiber Towels. Replace microfiber towels frequently, especially those used for levelling and residue removal. As coating accumulates and begins to cure in the fibers, the towel can start to drag, smear, or interfere with proper levelling. Fold and rotate the towel regularly to expose a clean side, and replace it as soon as its performance changes. Microfiber towels are inexpensive compared with the time and effort required to correct a coating defect—when in doubt, use a fresh one.

2. Surface Preparation

This manual does not provide detailed instructions for vehicle washing, decontamination, paint correction, or other detailing procedures. These processes are assumed to be performed by a trained installer using appropriate methods and products.

Proper surface preparation is essential to the performance and appearance of the coating. Oils, waxes, residues, previous protective treatments, and other contaminants may interfere with coating adhesion and must be thoroughly removed before application.

Surface defects should also be corrected before the coating is installed. Once coated, existing scratches, swirls, oxidation, staining, and other imperfections may become effectively sealed beneath the protective layer. While some Ceramic Pro coatings may visually reduce the appearance of minor imperfections, the best result is achieved by bringing the surface to the desired condition before application.

Surface preparation may sometimes require more time than the coating application itself. This is normal. The preparation stage should take as much time as necessary to ensure that the surface is clean, properly corrected, and ready for coating.

Ceramic Pro Nano-Primer (Where Applicable)

On compatible painted surfaces, Ceramic Pro Nano-Primer is recommended as the final preparation step before Ceramic Pro ONE. Nano-Primer is not automatically required for every substrate or every approved use of ONE, particularly where ONE is applied over a compatible existing Ceramic Pro coating or protective film.

Where Nano-Primer is used, apply several drops to a soft polishing pad and spread the product evenly over the surface using a polishing machine at low speed (600–1000 RPM). Work in small sections without applying pressure or generating excessive heat. The purpose is not further paint correction, but to apply Nano-Primer evenly and prepare the substrate for coating application.

Immediately remove any remaining residue with a clean microfiber towel and allow Nano-Primer to settle for 30–40 minutes before proceeding with Ceramic Pro ONE application.

> Do not apply Ceramic Pro Nano-Primer to matte surfaces. For PPF, vinyl, plastics, and other non-painted substrates, follow the substrate-specific preparation procedure and do not assume Nano-Primer is required.

Workflow

The following sequence represents the standard preparation workflow recommended before Ceramic Pro coating application:

Initial Inspection → Thorough Wash & Decontamination → Surface Inspection → Removal of Existing Coatings / Paint Correction as Required → Final Wash → Degreasing / Final Surface Cleaning → Drying → Final Inspection → Nano-Primer Application (where applicable) → Coating Application

Tips

Use Ceramic Pro Spectrum for Surface Preparation. Suitable third-party detailing products may be used during cleaning and preparation, but we strongly recommend Ceramic Pro Spectrum whenever possible. The reason is practical: Spectrum products are tested for compatibility with Ceramic Pro coatings and are the products we work with directly, understand in detail, and continuously evaluate through testing and real-world installation experience.

When an unusual preparation-related problem occurs, knowing exactly which products were used makes diagnosis much easier. We can draw on known product behavior, compatibility data, and previous field cases rather than trying to account for one of many unfamiliar third-party formulations available on the market. This allows us to provide faster and more reliable technical support and reduces unnecessary variables during preparation and installation.

Do Not Rush Surface Inspection. Take the time to inspect the surface carefully at every stage of preparation and installation. Finding a defect early is far easier than discovering it after the coating has been applied and having to correct or repeat the work. Always use a professional inspection light in addition to normal shop lighting, as some defects, residues, or uneven areas may otherwise be difficult to see.

3. Application

1. Prepare the Work Area

Before beginning the installation, confirm that the work area, tools, products, and consumables are fully prepared and within easy reach. Make sure the working environment is clean, controlled, and suitable for coating application.

For the most predictable and consistent results, we recommend working at 25 °C and 50% relative humidity. The application timings and behavior described in this manual are based on these reference conditions. Significant changes in temperature or humidity may affect coating reaction speed and shorten or extend the available working windows.

Complete this check before opening and applying the product. Once application begins, unnecessary interruptions should be avoided.

2. Prepare the Product

Before use, shake the product thoroughly for approximately 40–60 seconds to ensure that the formulation is properly mixed and ready for application.

Open the bottle carefully, as slight internal pressure may occasionally be present.

Before applying the coating to the surface, we also recommend performing a quick visual product check. Dispense a few drops onto a clean piece of glass, white card, or another suitable inspection surface and confirm that the product appearance corresponds to the description stated in the TDS. Check for any unusual color, cloudiness, particles, flakes, or other visible abnormalities.

This check is precautionary and normally takes only a few seconds, but it can help identify a rare product issue before application begins.

Application Method A — Green Microfiber Applicator Method

1. Prime the Applicator

Wrap a clean green microfiber application cloth around a firm applicator block. Before treating the first working area, dispense enough Ceramic Pro ONE to evenly wet the working face of the microfiber.

Keep the applicator evenly loaded throughout installation. Apply enough product that the treated surface appears visibly wet during application, but avoid excessive saturation or dripping. Replenish the applicator regularly to maintain consistent product transfer.

2. Select the Working Area

Work one manageable panel or section at a time. Doors and similarly sized panels may normally be treated as a complete working area.

Large panels such as the hood or roof may be divided into smaller sections when temperature, humidity, panel geometry, or product behavior makes this more practical. The working area should always remain small enough to allow comfortable levelling within the available flash window.

Work systematically and follow a consistent panel sequence around the vehicle or treated object.

3. Apply the Coating

Apply Ceramic Pro ONE using straight, controlled passes with light and even pressure. Keep the surface visibly and uniformly wet while the product is being distributed.

Use slightly overlapping passes to ensure complete and even coverage across the working area. Maintain a consistent application pattern and make sure no untreated gaps remain between adjacent passes.

Avoid excessive pressure and unnecessary repeated passes. The objective is a uniform, continuous layer with consistent product coverage rather than repeatedly working the same area.

4. Allow the Product to Flash

After completing the section, allow the coating to flash before levelling.

At the reference conditions of 25 °C and 50% relative humidity, the typical flash time is approximately 30–60 seconds.

This timing is a reference rather than an absolute limit. Temperature, humidity, panel temperature, applied quantity, substrate, and installer technique can all affect product behavior. Ceramic Pro ONE is designed with a controlled working window, but the coating should still be observed and levelled according to its actual behavior rather than by the clock alone.

Observe the coating during application and begin levelling while the product can still be redistributed and removed cleanly.

> **What is flashing?** Flashing is the stage at which the freshly applied coating begins to change from a freely flowing liquid into a more viscous, partially set layer and becomes ready for levelling.
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> If you are unsure when this occurs, observe the first treated section rather than relying only on the clock. View the surface at an angle of approximately 45° and slightly change your viewing angle from side to side. A subtle change in surface appearance or a faint iridescent haze may become visible as the product begins to flash. Once the coating reaches the point where it can be levelled cleanly and evenly, proceed with levelling and wipe-off.

5. Level the Coating

Use a clean, dry microfiber towel to gently level the coating and remove excess product. Work with light, even pressure and controlled movements until the treated area is uniform and free from visible residue.

Follow with a second clean, dry microfiber towel for the final wipe and inspection pass, removing any remaining haze or residue.

Rotate and refold the towels frequently to expose a clean working side. Replace a towel whenever coating accumulation begins to affect its movement or absorption.

6. Inspect the Section

Immediately inspect the treated area using a professional inspection light from multiple angles.

Check for:

- High spots;
- Streaks or smearing;
- Uneven levelling;
- Excess product;
- Missed areas or incomplete coverage.

Correct any irregularities before moving to the next section. Do not leave visible defects to be corrected after the coating has begun to cure.

7. Continue the Application

Repeat the same procedure section by section until the required surface has been completely coated.

Maintain a consistent working sequence and slightly overlap adjacent sections to avoid untreated boundaries.

For installations requiring multiple layers, note the application sequence and timing of the first layer. Apply subsequent layers in the same panel order so that the required intercoat interval is maintained consistently across the entire surface.

8. Apply Additional Layers

Ceramic Pro ONE may be applied in one or more layers. When applying an additional layer during the same installation session, allow the previous layer to settle for the specified intercoat interval before proceeding.

Under the reference conditions, the approved same-session intercoat window is 40–60 minutes.

Track this interval for each treated area rather than simply waiting a fixed period after completing the entire vehicle. Begin the next layer on the same panels in the same sequence used for the previous layer.

Ceramic Pro ONE is designed for ambient curing. Do not use IR curing as a routine intercoat step unless a product-specific procedure explicitly authorizes it.

If the 60-minute same-session intercoat window is exceeded, do not assume that the surface can be treated as an immediate intercoat application. Inspect and prepare the surface appropriately and treat a later layer as a new application procedure.

> **Tip:** Applying additional layers of Ceramic Pro ONE should not be expected to increase the strength or service life of its hydrophobic effect. The primary purpose of multi-layering is to increase the thickness of the ceramic protective layer.
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> Two layers are recommended during the initial installation to help ensure complete coverage, reduce the risk of missed areas, and establish sufficient coating thickness from the start. Additional layers further increase the ceramic layer thickness and may improve overall barrier and chemical protection, but they do not materially increase the hydrophobic performance or its durability.
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> But it is a valid measure to renew the hydrophobic effect at a time when its efficiency drops to low values.

9. Perform Final Application Inspection

After completing the final layer, inspect the entire treated surface carefully under dedicated inspection lighting.

Confirm that the coating is uniformly levelled and that no high spots, streaks, residue, missed areas, or other visible application defects remain.

Once the final inspection is complete, proceed to the specified curing procedure.

Product Combinations

Ceramic Pro ONE can be used as a stand-alone coating, as an advanced top or finishing coat over approved Ceramic Pro coating systems, and as a protective booster over compatible PPF and vinyl. The combinations below identify common system roles and the required application order.

Role of This Product
System Role: Stand-Alone Coating / Top Coat / Finishing Coat / Booster

Compatible Products

Ceramic Pro 9H

Role:	Main Protective Coating / Base Layer
Application Order:	Before Ceramic Pro ONE
Waiting Time Before Application:	Apply ONE only after Ceramic Pro 9H has reached the approved overcoating stage specified for the combination.

Ceramic Pro ONE may be used as an advanced finishing layer over Ceramic Pro 9H, adding strong hydrophobic performance, surface slickness, and an additional protective ceramic layer. Do not automatically substitute the 9H → Top Coat timing unless it is specifically approved for ONE.

Paint Protection Film (PPF)

Role:	Protected Substrate / Base Surface
Application Order:	Install PPF first, then apply Ceramic Pro ONE
Waiting Time Before Application:	Approximately 24 hours after PPF installation, or after the film has fully settled and all post-installation inspection and finishing procedures have been completed.

Ceramic Pro ONE may be applied to PPF using the same application procedure used on automotive paint and other compatible surfaces.

For newly installed PPF, allow the film sufficient time to settle before coating. As a general practice, the vehicle should remain overnight or for approximately 24 hours after installation so that the film can stabilize and the installer can complete the final inspection, check adhesion, finish or secure edges, and correct any remaining installation issues.

Once these procedures are complete, Ceramic Pro ONE may be applied directly to the PPF.

Application immediately after this settling period is preferred because the film is normally still clean and in controlled condition; however, Ceramic Pro ONE may also be applied at any later stage of the PPF service life. In this case, the film must first be properly cleaned, decontaminated, inspected, and prepared before coating application.

Post-Installation Curing & Handling

Application is complete, but the coating still requires time to cure and develop its intended properties. During this period, the treated surface should be protected from conditions that may interfere with the curing process.

Initial Cure: 1 hour

For the first 1 hour after application, keep the coated surface in a clean, dry, controlled environment. Avoid touching the surface or exposing it to water, dust, chemicals, mechanical contact, or other contamination.

After approximately 1 hour, the coating reaches its tack-free state. Although the surface is no longer tacky, the curing process is still ongoing.

Water Contact & Release for Service: 24 hours

For the first 24 hours, avoid contact with water and other liquids and protect the surface from unnecessary mechanical or chemical exposure.

After 24 hours, the coated vehicle or surface may be released for normal handling, transportation, or delivery, while observing the remaining curing restrictions.

Washing & Normal Use: 7 days

Do not wash the coated surface or use cleaning chemicals for at least 7 days after application.

After 7 days, Ceramic Pro ONE reaches its full chemical cure and the surface may return to normal coating-safe washing and maintenance procedures.

4. Aftercare

Proper aftercare helps preserve the appearance, slickness, and hydrophobic performance of Ceramic Pro ONE for as long as possible. The installer should explain the following recommendations to the customer when the treated vehicle or surface is delivered.

Routine Care

Advise the customer to remove significant contamination reasonably promptly rather than allowing it to remain on the surface for extended periods.

Unnecessary washing should be avoided. Ceramic Pro coatings are designed to reduce contaminant adhesion and support self-cleaning behavior, so if the surface is already clean, additional washing provides little benefit and only introduces unnecessary mechanical contact.

When washing is required:

- use mild, coating-safe cleaning products whenever possible;
- avoid aggressive chemicals unless they are genuinely required to remove specific contamination;
- use soft, clean wash media and fresh microfiber towels;
- avoid hard brushes, abrasive tools, or other aggressive physical contact;
- dry the surface with clean, soft microfiber towels.

Ceramic Pro Shampoo is recommended because it is designed for use with Ceramic Pro coatings, although other suitable pH-neutral or coating-safe shampoos may also be used.

Professional and Automatic Car Washes

When using a commercial car wash, recommend facilities that understand how to maintain coated and protected surfaces and use gentle washing procedures.

Where convenient, the customer may return to an authorized Ceramic Pro center for maintenance washing, where the coating can be cleaned and inspected using appropriate procedures.

Automatic car washes are generally not recommended because the condition of the brushes, wash media, and chemicals cannot always be controlled. Occasional use will not normally cause immediate coating failure, but repeated aggressive washing may accelerate surface wear and reduce hydrophobic performance.

Loss of Hydrophobic Performance

Ceramic Pro ONE uses a 3D hydrophobic structure extending throughout the coating layer. As the surface gradually wears, hydrophobic performance is designed to decline progressively rather than fail abruptly. A noticeable reduction in water repellency may also be caused by surface contamination and does not by itself mean that the underlying protective layer has failed.

If hydrophobic performance decreases, first inspect the surface and determine whether contamination, mineral deposits, or normal surface wear is responsible. Use the least aggressive maintenance procedure required to restore proper surface behavior.

Cleaning & Decontamination

Where hydrophobic performance is reduced by contamination, carry out a coating-safe wash and, where necessary, appropriate chemical decontamination before considering reapplication. Do not apply a fresh coating layer over a contaminated surface.

Professional Ceramic Pro ONE Renewal

Where the surface requires a full hydrophobic refresh, inspect the existing coating, perform light polishing where required to remove residual degraded hydrophobic behavior, complete the normal final-cleaning procedure, and apply one fresh layer of Ceramic Pro ONE.

Additional ONE Layer / Upgrade

Ceramic Pro ONE may be reapplied after appropriate inspection and preparation to restore hydrophobic performance while adding another protective ceramic layer. A later maintenance application should be treated as a new installation rather than as a continuation of the original same-session intercoat window.

If the existing surface shows damage, severe contamination, or uncertain coating condition, inspect and correct the surface before deciding whether cleaning, polishing, or reapplication is appropriate. Use only maintenance products and procedures confirmed compatible with Ceramic Pro ONE.