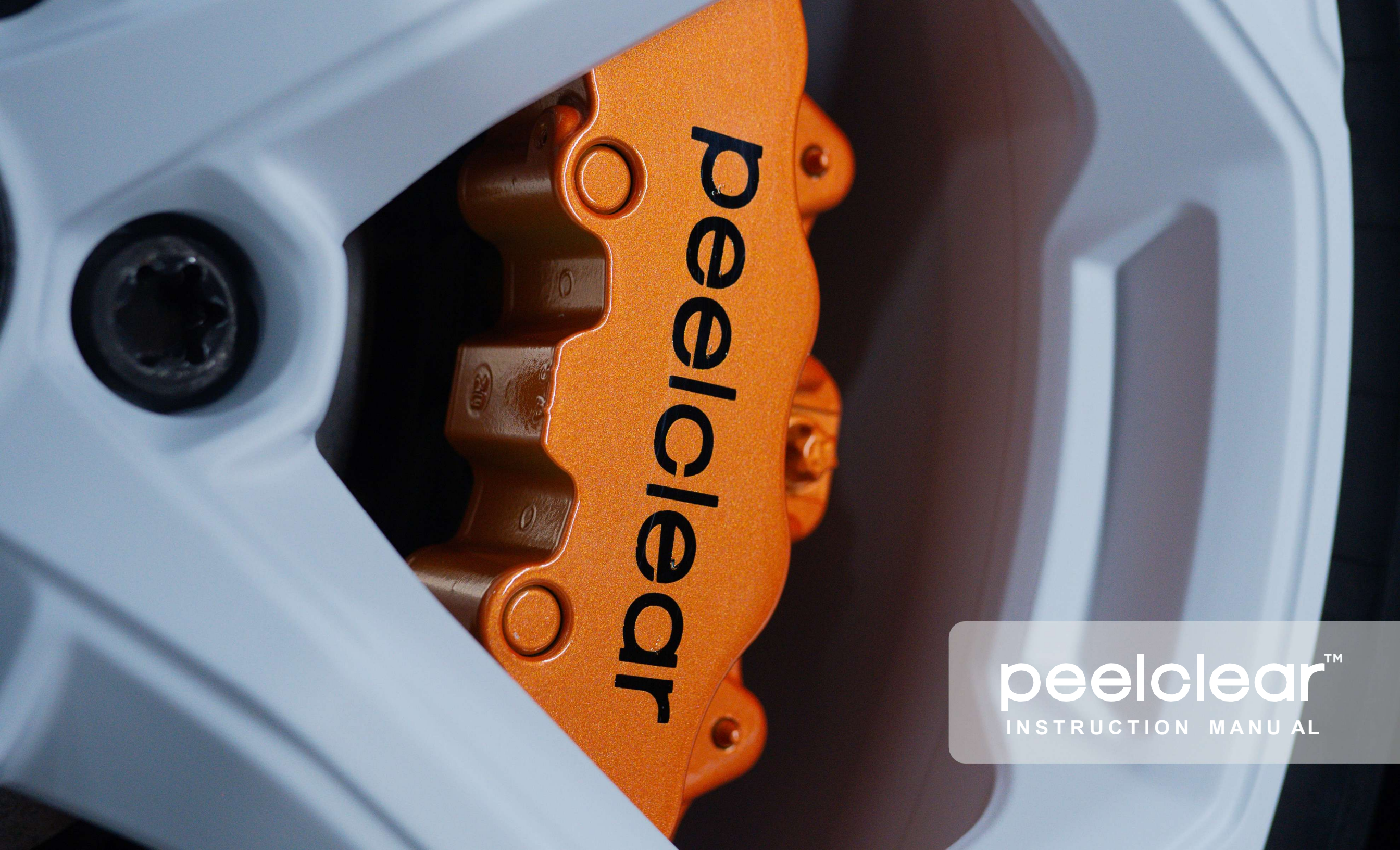


A close-up photograph of a blue Peel Clear car body. The car is positioned diagonally, showing the front left corner. A prominent orange Peel Clear logo is visible on the side of the car. The logo is a stylized, wavy shape with the words "peelclear" in black, lowercase letters. The car's body is a light blue color, and the background is a dark, out-of-focus surface.

peelclear

peelclear™
INSTRUCTION MANUAL

Peelclear Base Coat Generation 2.0

COMPATIBILITY WARNINGS

Use only Generation 2.0 system products. The following materials are not compatible with Peelclear Generation 2.0.

- Do not use anti-wrinkling or anti-blistering.
- Do not use Gen 1 basecoat slow reducer.
- Do not use Peelclear Low VOC OEM paint match.

Peelclear Gen 2.0 – What's NEW

1. **Built-in anti-blister formula**

Anti-blister is in every coat of PeelClear Gen 2. You don't add it separately anymore. It is formulaed into every coat, blistering is nonexistent.

2. **Better drying and flow-out**

Drying and flow-out were tuned to help control texture, orange peel and reduce dry spray.

3. **Micro-bubbling**

Aeration, defoamer, and gassing were adjusted so micro-bubbling is less likely. The full package was reworked, and the defoamer package is about **3×** stronger. The finish is clearer than ever.

4. **Stronger UV protection**

UV A & B protection was increased for longer exposure resistance.



System Architecture

SPRAY-APPLIED, REMOVABLE PAINT TECHNOLOGY

Peelclear is a new class of automotive paint technology, a fully removable, spray-applied paint system that allows vehicles to be painted, protected, and transformed without permanently altering the original factory finish.

Unlike traditional coatings, wraps, or films, Peelclear is applied using professional paint equipment and structured layers to form a durable, flexible paint film that can be cleanly removed at any time.

This manual provides the standardized application procedures and technical specifications required to achieve professional results with the Peelclear system.

This manual is intended for trained automotive refinishing professionals and authorized Peelclear installers. Professional results depend on correct surface preparation, material handling, environmental control, and adherence to the procedures defined in this document.

Peelclear is not a coating, vinyl, or PPF - it's paint. You are painting the vehicle using a controlled, removable paint system.

Mastery of the system comes from understanding:

- Layer structure
- Film thickness management
- Environmental control
- Application discipline

The chemistry remains consistent across all finishes. Only the layering strategy changes.

PREPARE⁰¹ATION



1. Surface Inspection

The substrate must have intact paint with a fully cured 2K clear coat that is at least 4 weeks old.

- Verify base coat thickness to achieve the correct micron (μm) level
 - Confirm surface condition and compatibility with Peelclear products before application
- Use the Peelclear Inspection Report to document all measurements and inspection results before, during, and after application.***

TOOLS & MATERIALS NEEDED

- Paint thickness gauge
- Inspection light

2. Cleaning & Decontamination

Create a clean, smooth foundation for the paint. A properly prepared surface allows the paint to lay down evenly, improves adhesion, and ensures clean removal later.

Wash the vehicle thoroughly, then clay bar the surface to remove all bonded contamination.

MANDATORY CONTAMINATION CONTROL

- No silicone, grease, wax, polish, or ceramic coating residues
- Do not apply polishes or waxes prior to paint application
- Avoid strong solvents (may soften the clear coat and compromise adhesion)
- If solvent contact occurs, allow 12 hours for the clear coat to re-harden
- Remove all waxes, sealants, and coatings before proceeding

DRYING

Completely dry all surfaces, especially seams, crevices, and interior edges.

TOOLS & MATERIALS NEEDED

- Automotive shampoo / Soap (with no fillers, ceramic or waxes - Unsented Dawn soap works great)
- Clay bar & clay lubricant
- Surface cleaner / degreaser (waterborne safe cleaners / isopropanol)
- Clean microfiber towels
- Compressed air or air blower



3. Disassembly

Select the service package based on the desired finish quality, coverage requirements, and the level of refinement expected by the customer.

Silver Package

Full exterior. Little to No disassembly. Fast, repeatable.

COVERAGE: Exterior painted surface only

DISASSEMBLY:

Remove only components that interfere with external application:

- Door handles
- Mirrors
- Badges
- Wings, etc.

Gold Package

Full disassembly. Every surface. Indistinguishable from factory paint.

COVERAGE: Exterior painted surface, door jambs, trunk jambs, and gas lid. (Doors removed.)

DISASSEMBLY: Full disassembly

- Door removal, lights, hood
- Door handles, mirrors, badges, wings
- Inside door panels
- Rubber gaskets interfering with door jamb access
- Additional components required for seamless application



4. Masking

Proper masking is essential to achieve clean paint film edges, accurate coverage, and controlled release performance.

1. Mask all non-painted areas thoroughly.
2. Mask headlights, grilles, trim, glass, and adjacent components with precision.
3. Use full, continuous strips of tape to ensure sharp edges and prevent bleed-through.
4. Bridging: maintain a minimum 1/32 in (≈ 1 mm) gap between parts to prevent the paint from bonding across panels.

Tip: Use the fingernail test, a gap approximately the width of your fingernail is ideal.

JAMB (EDGE) MASKING

Tube tape: Select the appropriate thickness (standard or large) to properly fill the gap. Apply the tube tape to the inside edge of the jamb, then close the door onto the tube tape.

Tape Technique: Apply a hard tape line 1/8–1/4 in inside panel edges (door jambs, trunk openings, fuel doors, etc.). Follow with 6–18 in masking paper to protect against overspray while preserving clean edge definition.

Note: Ensure the undercarriage is also masked, if possible tape it to the floor.

TOOLS & MATERIALS

- High-quality automotive masking tape (multiple widths)
- Tube tape for jamb edges
- Masking paper (6–18 in)
- Plastic masking film (vehicle coverage)
- Utility knife or blade for clean edge trimming



5. Surface Primer 2.0

Surface Primer 2.0 is used to regulate adhesion between the substrate and Peelclear base coat. It does not build film. It creates a uniform interface for controlled application and release.

Use prior to Peelclear base coat to:

- Reduce excessive adhesion
- Improve release consistency
- Normalize surface variability

SURFACE PREPARATION (REQUIRED)

- Use a DA polisher with a foam medium cutting pad
- Apply a medium compound
- Make a few fast passes (not paint correction)

Goal: Remove contamination and create a clean, uniform surface

After compounding:

- Wipe clean with microfiber
- Follow with IPA 99% Alcohol
- Ensure no residue remains (remaining)

APPLICATION

- Mix thoroughly
- Spray with low fluid, high atomization (~30 PSI)
- Apply 1-2 very light, dry coat. Surface should look matte no gloss left

Correct: matte / dull finish

Incorrect: wet or glossy = too heavy

Allow ~ 3 min flash, then proceed with Peelclear Base Coat.

BASE COAT ADDITIVES

Gen 2.0 Base Coat Slow Reducer

EXTENDS OPEN TIME AND IMPROVES FLOW AND LEVELING



10%

STANDARD MIXING RATIO (75–85°F)

Adjust 5-15 %. Standard conditions
(24–29°C / 75–85°F)

10-20%

HOT CONDITIONS (85°F+)

High airflow / Large panels / Fast flashing

Peelclear's Waterbased Slow Reducer extends open time, improves flow and leveling, and maintains a consistent wet edge during application. Reduces dry spray and enhances metallic and pearl orientation across varying shop conditions.

Directions for Use

- MIX BASE COAT**
Fully mix **Peelclear Base Coat** (including colorants/pearls if needed)
- ADD SLOW REDUCER**
Add the Base Coat Slow Reducer (5–25%) based on conditions
- MIX UNTIL UNIFORM**
Mix thoroughly before spraying.

IMPORTANT NOTES

Excess reducer may reduce film build. Does not correct surface contamination or fisheyes. Ensure first coat is a full, wet, continuous film. Minimum film build: 4 mil+ (100 µm) before Top Coat.

Use When: Hot conditions • High airflow • Large panels • Fast flashing

Do Not Use: Cold temperatures • High humidity • Small/detail areas • Maximum film build required

PRO TIP

- Use 10–20% for hot conditions (85°F+), high airflow, large panels, or fast flashing.
- Use the minimum amount needed to achieve proper flow and leveling.
- When spraying dry mica powders, pearls, or metallics, cut your basecoat with 20–25% slow reducer.

BASE COAT APPLICATION

Clear Protection

Solid Color

Pearls

Ultrashift

OEM color

PEELABLE PAINT SYSTEM

Peelclear utilizes one universal, peelable paint architecture to produce solid colors, pearls, ultrashift effects, OEM color matches, and clear protection.

The chemistry remains constant, only the layering strategy changes. This approach allows installers to deliver a wide range of finishes without changing equipment, materials, or workflow.

EVERY FINISH IS BUILT USING STRUCTURED LAYERS:

- BASE COAT ~ 4-5 COATS** (min 4-5 mils).
 Structural, peelable foundation (clear or tinted, depending on system)
- COLOR / EFFECT LAYER/ PEELCLEAR PAINT - (optional)
- TOP COAT - 2 COATS**
 Final gloss, matte, or satin finish.



FINISHES AVAILABLE:
 Clear Protection, Solid Color, Pearls, Ultrashift and Peelclear Paint



SPRAY GUN SET-UP

Tip size: 1.4
 @ 29 PSI



BASE LAYERS

4-5
 4-5 mils



FLASH TIME

10-20 min
 Look for a Matte finish



PAINT BOOTH

72 °F / 22 °C



THICKNESS PER COAT

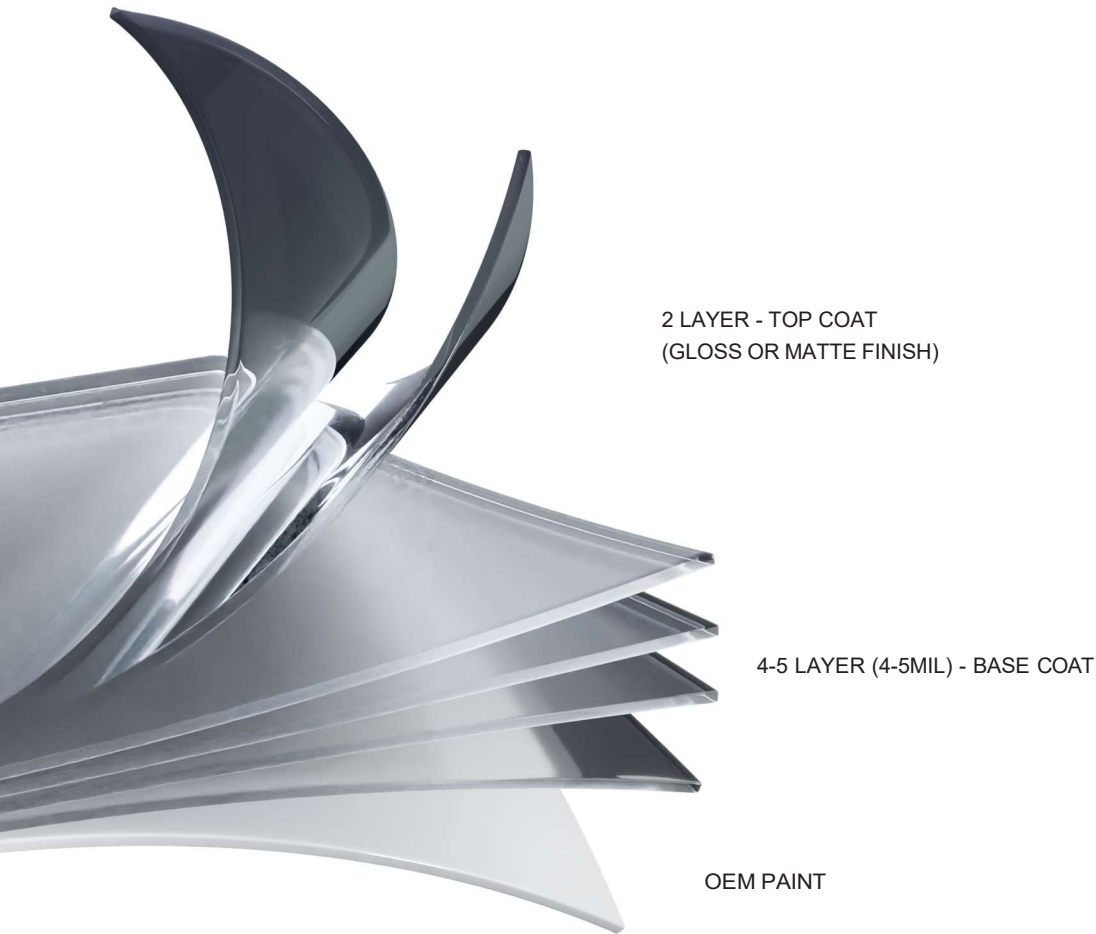
~ 0.8-1.2 mils
 (20-30 µm)



TOTAL SYSTEM THICKNESS

~ 8-12 mils
 (200-300 µm)

Clear Protection Application



MIXING

Peelclear Base Coat is supplied clear and ready to spray.

- Thoroughly mix each gallon using a clean mixing stick. Mixing Ratio:

APPLICATION

1. **Peelclear Base Coat. No color added mix well**
2. Apply 4-5 Medium wet to wet coats at 60/40 overlap (close-cell coat).
 - Flash until the surface is matte and no longer wet.
 - Typical flash: 10 - 20 minutes (depending on airflow, temp & humidify)

Build to approximately **4–5 mils** total film thickness. About Four coats. Additional coats may be required depending on technique and coverage. Peelclear Base Coat is a full waterborne system and dries much faster with a forced dry air system over the surface of the coating. A small amount can go a long way.

DRYING BEFORE TOP COAT

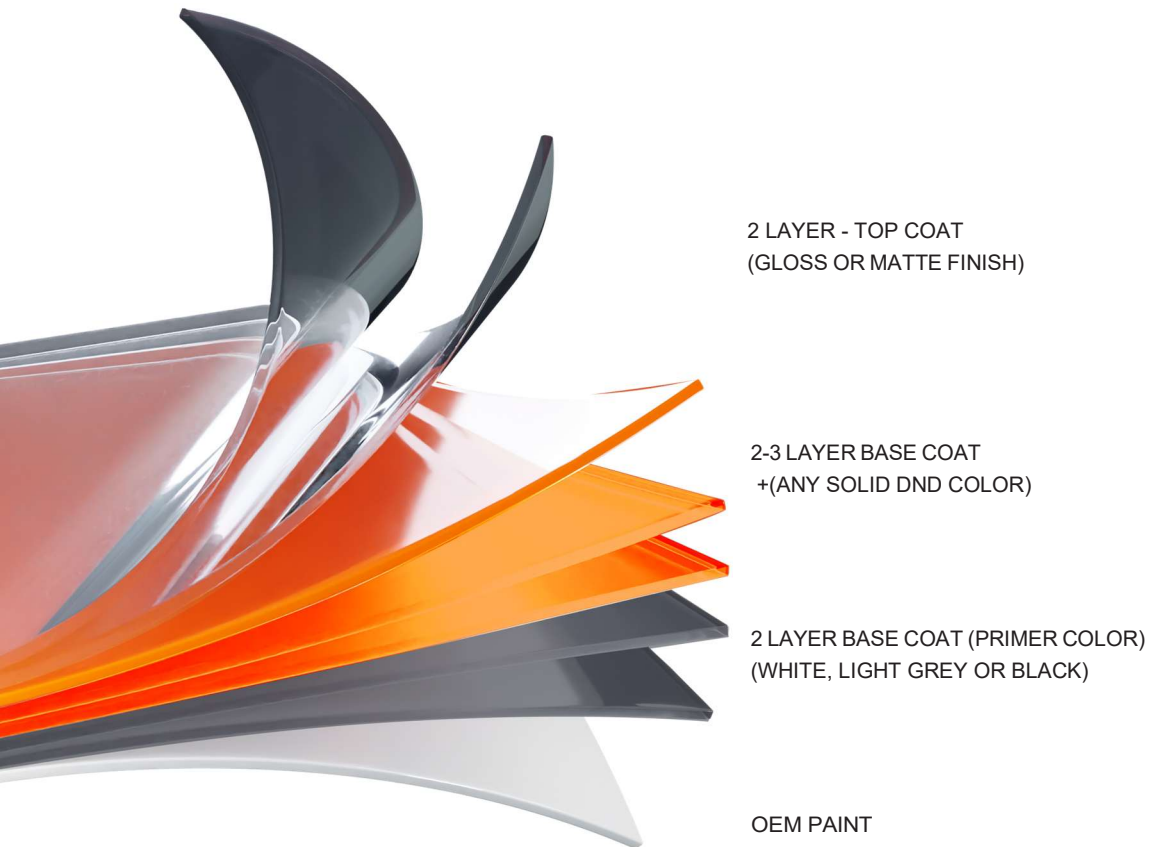
After applying 4–5 mils of base coat, dry it with one of these three ways before applying top coat:

- **Bake** - 140°F for 30 minutes.
- **IR lights** - 160°F for 20 minutes per panel
- **Air dry** - 8 hours, or overnight
- **Option:** Skip the base bake and bake after the top coat is installed. Use a longer bake to remove all water from the base.

TOP COAT MIXING/APPLICATION

Go to section 3 on page: 16

Solid Color Application



MIX DIP N' DYES PRIMER / SOLID COLORS

Each Dip N' Dyes jar tints 1 gallon of Peelclear Base Coat.

Scale the ratio as needed. Exception: one 4 oz primer black g10 jar tints 1 gallon.

1. Open the pearl jar add some water and mix until you get a paste (1-3 oz)
2. Pour Dip N' Dyes into the Base Coat, submerge the beads & mix,
3. Wait about 5 minutes, then stir until fully dissolved. Tip: use a small mixer on slow speed.

APPLICATION

1. **Mix Primer Dip N' Dyes into the Base Coat.**
2. Apply 2 Medium wet to wet coats at 60/40 overlap (close-cell coat).
 - Flash until the surface is matte and no longer wet.
 - Typical flash: 10 - 20 minutes (depending on airflow, temp & humidify)
3. **Mix the desired Dip N' Dyes color into the Base Coat.**
4. Spray 3rd and 4th coats wet at 60/40 overlap.
 - Flash each coat until matte.
 - Typical flash time: **10–20 minutes** (depending on airflow, temp & humidify).

Build to approximately **4–5 mils** total film thickness. About Four coats. Additional coats may be required depending on technique and coverage.

DRYING BEFORE TOP COAT

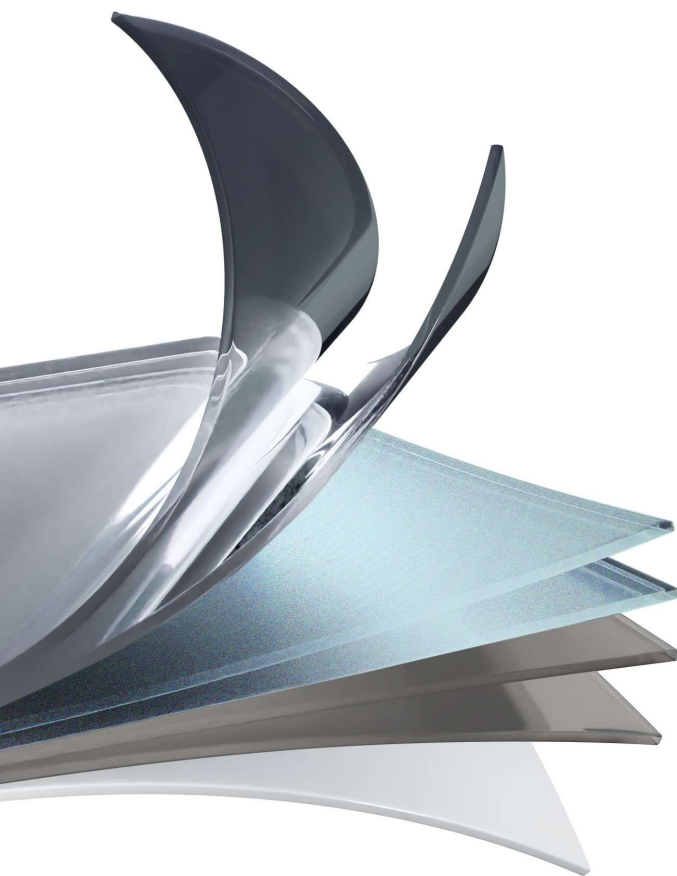
After applying 4–5 mils of base coat, dry it with one of these three ways before applying top coat:

- **Bake** - 140°F for 30 minutes.
- **IR lights** - 160°F for 20 minutes per panel
- **Air dry** - 8 hours, or overnight
- **Option:** Skip the base bake and bake after the top coat is installed. Use a longer bake to remove all water from the base.

TOP COAT MIXING/APPLICATION

Go to section 3 on page: 16

Pearls Application



2 LAYER - TOP COAT
(GLOSS OR MATTE FINISH)

1-2 LAYER BASE COAT
+ PEARL

2 LAYER BASE COAT
+ COLOR MATCH DND

2 LAYER BASE COAT
+ PRIMER COLOR

OEM PAINT

MIX DIP N' DYES PRIMER / SOLID COLORS

Each Dip N' Dyes jar tints 1 gallon of Peelclear Base Coat.

Scale the ratio as needed. Exception: one 4 oz primer black g10 jar tints 1 gallon.

1. Open the pearl jar add some water and mix until you get a paste (1-3 oz)
2. Pour Dip N' Dyes into the Base Coat, submerge the beads & mix,
3. Wait about 5 minutes, then stir until fully dissolved. Tip: use a small mixer on slow speed.

MIX PEARLS

Mix 50 grams of Pearls into 1 gallon of Peelclear Base Coat.

1. Open the pearl jar add small amount of water and mix until you get a paste (1-3 oz)
2. Pour the pearls into the base coat and mix.

APPLICATION

1. **Mix Primer Dip N' Dyes into the Base Coat.**
2. Apply 2 Medium wet to wet coats at 60/40 overlap (close-cell coat).
 - Flash until the surface is matte and no longer wet.
 - Typical flash: 10 - 20 minutes (depending on airflow, temp & humidify)
3. **Mix the desired Dip N' Dyes color into the Base Coat.**
4. Spray 3rd and 4th coats wet at 60/40 overlap.
 - Flash each coat until matte.
 - Typical flash time: **10–20 minutes** (depending on airflow, temp & humidify).

Build to approximately **4–5 mils** total film thickness. About Four coats. Additional coats may be required depending on technique and coverage.

DRYING BEFORE TOP COAT

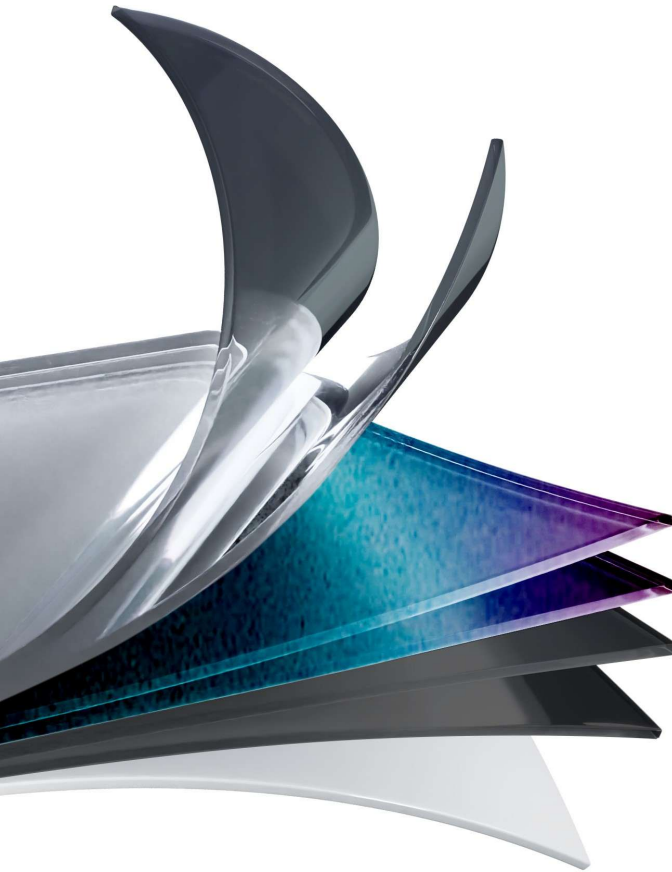
After applying 4–5 mils of base coat, dry it with one of these three ways before applying top coat:

- **Bake** - 140°F for 30 minutes.
- **IR lights** - 160°F for 20 minutes per panel
- **Air dry** - 8 hours, or overnight
- **Option:** Skip the base bake and bake after the top coat is installed. Use a longer bake to remove all water from the base.

TOP COAT MIXING/APPLICATION

Go to section 3 on page: 16

Ultrashift Pearls Application



2 LAYER - TOP COAT
(GLOSS OR MATTE FINISH)

2 LAYER
BASE COAT + ULTRASHIFT PIGMENT

2 LAYER BASE COAT
+ PRIMER COLOR

OEM PAINT

MIX DIP N' DYES PRIMER / SOLID COLORS

Each Dip N' Dyes jar tints 1 gallon of Peelclear Base Coat.

Scale the ratio as needed. Exception: one 4 oz primer black g10 jar tints 1 gallon.

1. Open the pearl jar add some water and mix until you get a paste (1-3 oz)
2. Pour Dip N' Dyes into the Base Coat, submerge the beads & mix,
3. Wait about 5 minutes, then stir until fully dissolved. Tip: use a small mixer on slow speed.

MIX ULTRASHIFT PEARLS

Mix 25 - 50 grams of Pearls into 1 gallon of Peelclear Base Coat.

1. Open the pearl jar add small amount of water and mix until you get a paste (1-3 oz)
2. Pour the pearls into the base coat and mix.

APPLICATION

1. **Mix Primer Dip N' Dyes into the Base Coat.**
2. Apply 2 Medium wet to wet coats at 60/40 overlap (close-cell coat).
 - Flash until the surface is matte and no longer wet.
 - Typical flash: 10 - 20 minutes (depending on airflow, temp & humidify)
3. **Mix the desired Ultra shift pearl color into the Base Coat.**
4. Spray 3rd and 4th coats wet at 60/40 overlap.
 - Flash each coat until matte.
 - Typical flash time: **10–20 minutes** (depending on airflow, temp & humidify).
 - Tip: adding some base coat slow reducer can help with flow to avoid molting and stripping

Build to approximately **4–5 mils** total film thickness. About Four coats. Additional coats may be required depending on technique and coverage.

DRYING BEFORE TOP COAT

After applying 4–5 mils of base coat, dry it with one of these three ways before applying top coat:

- **Bake** - 140°F for 30 minutes.
- **IR lights** - 160°F for 20 minutes per panel
- **Air dry** - 8 hours, or overnight
- **Option:** Skip the base bake and bake after the top coat is installed. Use a longer bake to remove all water from the base.

TOP COAT MIXING/APPLICATION

Go to page: 16

Peelclear Paint Color Match Application



2 LAYER - TOP COAT
(GLOSS OR MATTE FINISH)

1.5 LAYER
WATERBORNE OEM COLOR

3-4 LAYER (3-4 MIL)
BASE COAT + PRIMER COLOR

OEM PAINT

MIX DIP N' DYES PRIMER / SOLID COLORS

Each Dip N' Dyes jar tints 1 gallon of Peelclear Base Coat.

Scale the ratio as needed. Exception: one 4 oz primer black g10 jar tints 1 gallon.

- 1 Open the pearl jar add some water and mix until you get a paste (1-3 oz)
- 2 Pour Dip N' Dyes into the Base Coat, submerge the beads & mix,
- 3 Wait about 5 minutes, then stir until fully dissolved. Tip: use a small mixer on slow speed.

MIX PEELCLEAR OEM PAINT COLOR

Peelclear Gen 2 OEM waterborne paint is ready to spray pre mixed with Peelclear Base Coat to ensure the correct crosslinking.

APPLICATION

- 1 **Mix Primer Dip N' Dyes into the Base Coat.**
- 2 Apply 3-4 Medium wet to wet coats at 60/40 overlap (close-cell coat).
 - Flash until the surface is matte and no longer wet.
 - Typical flash: 10 - 20 minutes (depending on airflow, temp & humidify).
 - Measure the thickness at 3-4 mils before moving on to the Peelclear Oem paint.
- 3 **Mix Peelclear OEM waterborne paint Ready to spray**
- 4 Spray 1.5 coats or until full converge.
 - Flash each until matte.
 - Typical flash time: **10–20 minutes** (depending on airflow, temp & humidify).
 - Tip: Adding an additional 5 – 10% oem reducer can help with hard to spray metallics

Build to approximately **4–5 mils** total film thickness. About Four coats. Additional coats may be required depending on technique and coverage.

DRYING BEFORE TOP COAT

After applying 4–5 mils of base coat, dry it with one of these three ways before applying top coat:

- **Bake** - 140°F for 30 minutes.
- **IR lights** - 160°F for 20 minutes per panel
- **Air dry** - 8 hours, or overnight
- **Option:** Skip the base bake and bake after the top coat is installed. Use a longer bake to remove all water from the base.

TOP COAT MIXING/APPLICATION

Go to page: 16

TOP COAT APPLICATION

Glossy Top Coat Application

MIX
R A T I O **2:1**



Spray Gun - Top Coat

WALCOM Genesi Carbonio 360
evo HTE 1.3mm or equivalent.



Spray Gun Set-up

Tip size: 1.3
@ 29 PSI



Flash Time

10 - 20 min



Layers

2

DE-NIBBING

Festool LZK-HM is a great tool to speed up de-nibbing.

MIX TOP COAT GLOSSY FINISH

Mix Ratio 2:1 + 10%

- Mix 2 parts Peelclear Top Coat (gloss) with 1 part Peelclear Activator. Blend thoroughly.
- Add 10% Peelclear Top Coat Reducer. Stir using a paint stick only.
- Medium reducer 60 – 75 degs.
- Slow reducer 75 and up.

APPLICATION

- Apply .5 coat (hang coat)
- Apply 2 wet coats with a 50/50 overlapping pass. Allow 15 to 20 minutes to flash, depending on temperature.
- If applying a third coat, add an additional 10 minutes of flashing 25 to 30 minutes.

DRYING / CURING TIMES

- 10 - 20 minutes flash off time
- Dry to handel 1-2 hours
- Bake time: Allow 30 minute purge time 45-60 minutes Then bake @140°F / 60°C Cool Down 2 hr.
- Pot Life: 60 Minutes
- You can sand, polish and re-coat after 12 hours of air drying.

REFINING THE FINISH

For a more uniform finish you can sand, polish, or flow-coat the glossy Top Coat just as you would a conventional clear.

SANDING AND POLISHING

You can sand both dry and wet. We recommend the following process:

1. P1500 wet leveling and dirt nibs
2. P2000 wet
3. P3000 wet
4. Wool or foam pad with compound
5. Finish with foam pad polishing

FLOW COATING

After a minimum of 12 hours air cure or completion of a forced bake cycle:

1. Sand the Top Coat flat with P600, removing orange peel and dirt nibs
2. Thoroughly clean the surface and remove all sanding debris
3. Apply 1–2 additional coats of Top Coat according to the application guidelines

Matte Top Coat Application

MIX
RATIO **4:1:2**



Spray Gun - Top Coat

WALCOM Genesi Carbonio 360
evo HTE 1.4mm or equivalent.



Spray Gun Set-up

Tip size: 1.4
@ 29 PS



Flash Time

10 - 20 min



Layers

2

PRO TIP

It's crucial to walk the car during application for a consistent, even matte finish.

MIXING TOP COAT - MATTE FINISH

Mix Ratio 4:1:2

1. Mix 4 parts Peelclear Top Coat with 1 part Peelclear Activator
 - Blend thoroughly
2. Then add 2 parts Peelclear Top Coat Reducer
 - Stir using a paint stick only
 - **Tip:** Adding an additional 5-10% reducer to the second coat can improve flow and leveling, helping reduce striping and mottling.
3. Medium reducer 60 – 75 degs.
4. Slow reducer 75 and up.

APPLICATION

1. Apply 2 wet coats with a 50/50 overlapping pass.
2. Allow 10 to 20 minutes to flash, depending on temperature.
3. If applying a third coat, add an additional 10 minutes to the flash-off time.

DRYING / CURING TIMES

- 10 -20 minutes flash off time
- Dry to handel 1-2 hours
- Bake time: Allow 30 minute purge time 30-40 minutes @140°F / 60°C Cool Down 2 hr.
- Pot Life: 60 Minutes

PANEL REPAIR

If runs, dirt nibs, or surface defects are present, correct the panel using a flow coat. To get a more even finish blend into a adjacent panel.

FLOW COATING

After a minimum of 12 hours air cure or completion of a forced bake cycle:

1. Sand the Top Coat flat with P600 – P1000, removing orange peel and dirt nibs
2. Thoroughly clean the surface and remove all sanding debris
3. Apply 1–2 additional coats of Top Coat according to the application guidelines

FINAL 5 STEPS



Final Steps

TAPE REMOVAL & RE-ASSEMBLY

1. Carefully remove all masking paper and tape.
2. When removing tape, ensure that Peelclear has not bridged between the masked surface and the vehicle.
3. If bridging is present, separate the edge with a clean, controlled cut before continuing.
4. Re-assemble all previously removed or disassembled components.

BRIDGING

In areas where components meet or move, paint may loosen over time due to pressure or movement. Double-check these areas carefully for bridging before final assembly.

To help prevent issues:

- Add fleece directly under contact or friction points, this could help with movements.
- Use caution during re-assembly
- Do not over-tighten fasteners or mounting points

OVERSPRAY

If any areas were not masked correctly and overspray is present, remove it using Peelclear Overspray Remover according to instructions.

EDGE FINISHING

After the coating is fully dry, finish exposed edges (such as door jambs) with black, white, or clear 1/2-inch vinyl to cleanly seal and protect the edges.

FINAL CLEAN

Perform a final wipe-down and inspection of the vehicle to remove dust, fingerprints, or residue before delivery.

peelclearTM

For more information
www.peelclear.com