



peelclear

peelclear™
INSTRUCTION MANUAL



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.

PREPARATION



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 (with no fillers, ceramic or waxes)
- 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.

Factory Finish Package

COVERAGE: Exterior painted surface only

DISASSEMBLY:

Remove only components that interfere with external application:

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

Factory Finish Plus Package

COVERAGE: Exterior painted surface, plus door jambs and trunk jambs. (Doors remain installed.)

DISASSEMBLY:

Includes all Factory Finish disassembly, plus:

- Inside door panels
- Rubber gaskets interfering with door jamb access
- Door handles, mirrors, badges, wings, etc.

Showroom Finish Package

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

DISASSEMBLY:

Includes everything from Factory Finish and Factory Finish Plus packages, plus:

- Door removal
- Lights
- Hood
- 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

Peelclear™ Surface Primer is designed to create the ideal bonding interface between the substrate and the Peelclear paint system. It promotes even paint flow, controlled adhesion, improved durability, and a clean, predictable release during removal.

APPLICATION

1. Shake the bottle thoroughly to fully re-suspend any settled material.
2. Apply a small amount to a clean microfiber applicator pad.
3. Wipe evenly across the surface using light, overlapping strokes.
4. Avoid badges and maintain approximately **½ inch (12 mm)** clearance from seams and panel joints (for example, between adjacent doors).
5. Allow **1-2 minutes** for the primer to flash until the surface turns matte.
6. Once dry, use a two towel method: one damp microfiber towel followed by one dry microfiber towel. **Do not leave any residue behind**, as this can cause contamination, fish eyes, or other surface defects.

TOOLS & MATERIALS NEEDED

- Peelclear™ Surface Primer
- Clean microfiber applicator pads
- Clean, dry and damp microfiber towels
- Masking tape (for protecting badges and adjacent trim, if required)

BASE COAT APPLICATION

Clear Protection

Solid Color

Pearls

Ultrashift

OEM color

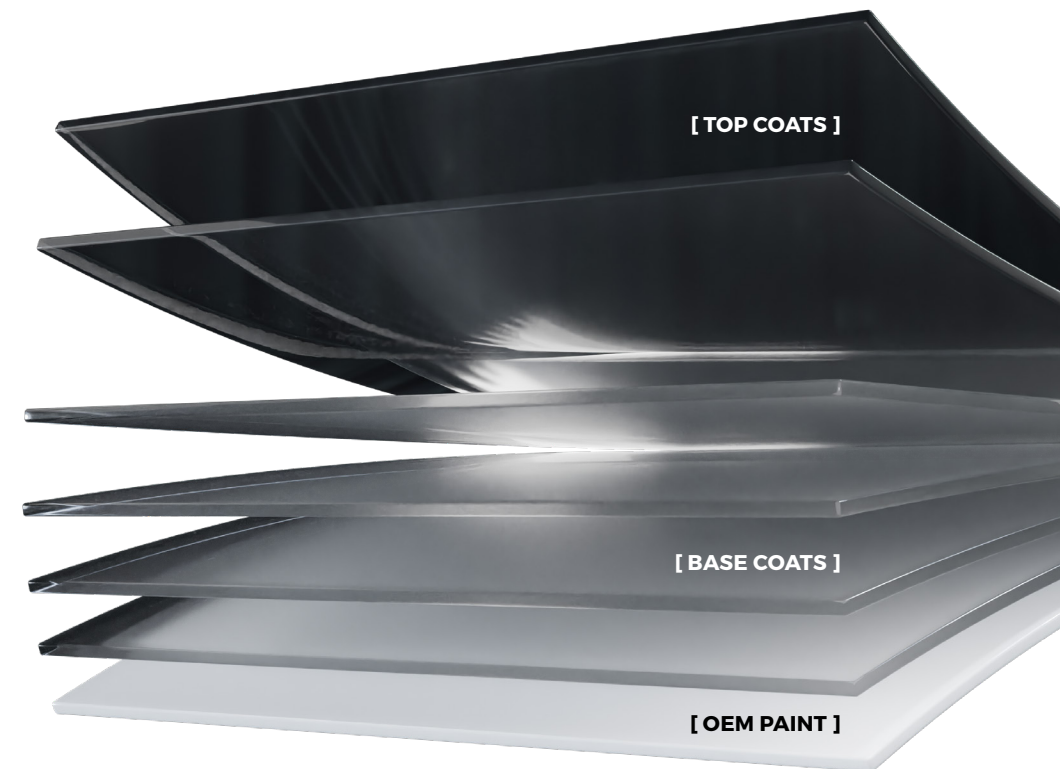
PEELABLE PAINT SYSTEM

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 COATS** (min 4 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



LAYERS

~ 4
4-5 mils



FLASH TIME

10-20 min



PAINT BOOTH

72 °F / 22 °C



THICKNESS PER COAT

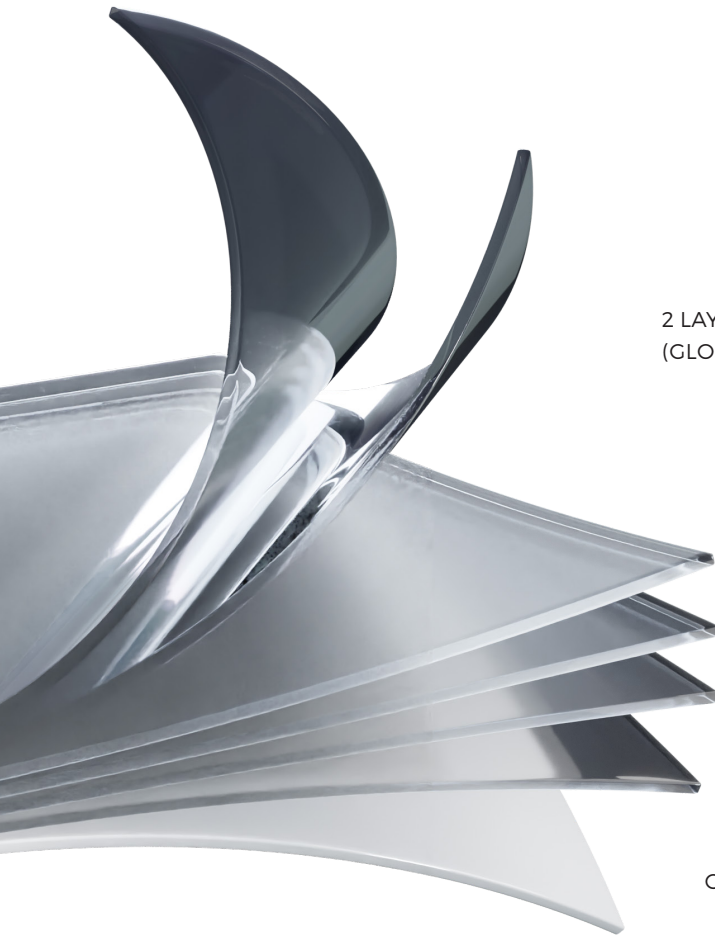
~ 0.8-1.2 mils
(20-30 mu)



THICKNESS OF BASE COAT

~ 4-5 mils
(200-300 mu)

Clear Protection Application



2 LAYER - TOP COAT
(GLOSS OR MATTE FINISH)

~ 4 LAYER (4MIL) - BASE COAT

OEM PAINT

MIXING

Peelclear Base Coat is supplied clear and ready to spray.

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

APPLICATION

1. Apply 1 medium-wet coat using a **50/50 overlap. (close cell coat)**
 - Allow to flash until the surface turns matte and is no longer wet.
 - Then start a timer for **15-20 minutes** (ideally at 72F degree) before applying the second coat.
 2. Apply the **2nd, 3rd, and 4th coats** as wet coats using a **60/40 overlap. Do not flood the panels!**
 - Allow each coat to flash until the surface becomes matte.
 - Typical flash time: **10-20 minutes** (depending on airflow and temperatures).
- Build to approximately **4-5 mils** total film thickness. About Four coats. Additional or fewer coats may be required depending on technique and coverage.
 - Force dry using air movement only, **DO NOT use heat!**

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 final flash-off, allow the Base Coat to fully dry.
- Wait approximately **20-40 minutes** before applying the Peelclear Top Coat.

TOP COAT MIXING/APPLICATION

Go to section 3 on page:

Solid Color Application



2 LAYER - TOP COAT
(GLOSS OR MATTE FINISH)

2-3 LAYER BASE COAT
(ANY SOLID COLOR)

1-2 LAYER BASE COAT (PRIMER COLOR)
(WHITE, LIGHT GREY OR BLACK)

OEM PAINT

MIX DIP N' DYES SOLID COLOR

Each Dip N' Dyes jar is pre-measured to tint **1/2 gallon of Peelclear Base Coat**. (or adjust proportionally for your desired mix ratio). Jet black is the exception, where one 4 oz jar tints 1 Gallon of base coat.

1. Pour the Dip N' Dyes jar into the Base Coat.
2. Push the Dip N' Dyes beads down into the liquid so they are fully submerged.
3. Wait approximately **2 minutes** for the beads to begin dissolving.
4. Stir thoroughly with a clean paint stick until the color is **fully dissolved and blended**, with no visible beads remaining. Tip: Use a small mixer on slow speed to blend easier.

APPLICATION

1. **Mix your primer Dip N' Dyes color in the Base Coat.**
 - Apply 1 medium-wet coat using a **50/50 overlap. (close cell coat)**
 - Allow to flash until the surface turns matte and is no longer wet.
 - Then start a timer for **15-20 minutes** (ideally at 72F degree) before applying the second coat.
 - Apply the **2nd coat** as a wet coat using a **60/40 overlap. Do not flood the panels!**
 - Allow each coat to flash until the surface becomes matte.
 - Typical flash time: **10-20 minutes** (depending on airflow and temperatures).
2. **Mix your desired Dip N' Dyes color in the Base Coat**
3. Spray the **3rd, and 4th coats** as wet coats using a **60/40 overlap**.
 - Allow each coat to flash until the surface becomes matte.
 - Typical flash time: **10-20 minutes** (depending on airflow).

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

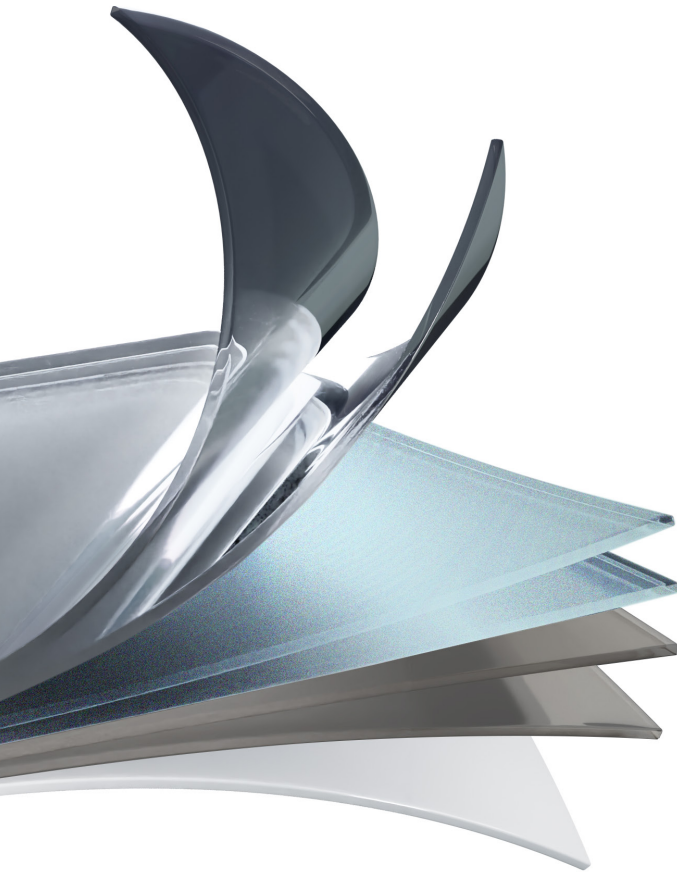
DRYING BEFORE TOP COAT

- After final flash-off, allow the Base Coat to fully dry.
- Wait approximately **20-40 minutes** before applying the Peelclear Top Coat.

TOP COAT MIXING/APPLICATION

Go to section 3 on page:

Pearls Application



2 LAYER - TOP COAT
(GLOSS OR MATTE FINISH)

2 LAYER BASE COAT + PEARL
+ COLOR MATCH

2 LAYER BASE COAT + COLOR
(BLACK/ WHITE/GREY SCALE)

OEM PAINT

MIX PRIMER COLOR

Mix your primer color (black/white/grey scale) in the Base Coat using Dip N' Dyes. Each Dip N' Dyes jar is pre measured to tint **1/2 gallon of Peelclear Base Coat** (or adjust proportionally for your desired mix ratio). Jet black is the exception, where one 4 oz jar tints 1 Gallon of Base Coat.

1. Pour the Dip N' Dyes jar into the Base Coat.
2. Push the Dip N' Dyes beads down into the liquid so they are fully submerged.
3. Wait approximately **2 minutes** for the beads to begin dissolving.
4. Stir thoroughly with a clean paint stick until the color is **fully dissolved and blended**, with no visible beads remaining. Use a small mixer on slow speed to blend easier.

MIX PEARLS

Mix 50 grams of Pearls into 1 gallon of Peelclear Base Coat. Then, add the matching Dip-N-Dye color.

1. Pour Both the Pearls and Dip N' Dye beads into the Base Coat.
2. Push the Pearls and Dip N' Dye beads down into the liquid until fully submerged.
3. Wait approximately **2 minutes** for the beads to begin dissolving.
4. Stir thoroughly with a clean paint stick until the color is **fully dissolved and evenly blended**, with no visible beads remaining. **Tip:** Use a small mixer on slow speed to blend easier.

APPLICATION

1. **Mix your** (black/white/grey scale) **primer color in the Base Coat, and apply a total of 2 layers.**
2. **Layer 1:** Apply 1 medium-wet coat using a **50/50 overlap. (close cell coat)**
 - Allow to flash until the surface turns matte and is no longer wet.
 - Then start a timer for **15-20 minutes** (ideally at 72F degree) before applying the second coat.
3. **Layer 2:** Apply a wet coat using a **60/40 overlap. Do not flood the panels!**
 - Typical flash time: **10-20 minutes** (depending on airflow and temperatures).
4. **Mix your desired Pearls in clear Base Coat, and apply another 2 layers.**
5. Spray the **3rd, and 4th coats** as wet coats using a **60/40 overlap. Do not flood the panels!**
 - Allow each coat to flash until the surface becomes matte.
 - Typical flash time: **10-20 minutes** (depending on airflow).
 - **Tip:** Applying an additional coat with only pearls will add an more intense pearl effect

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

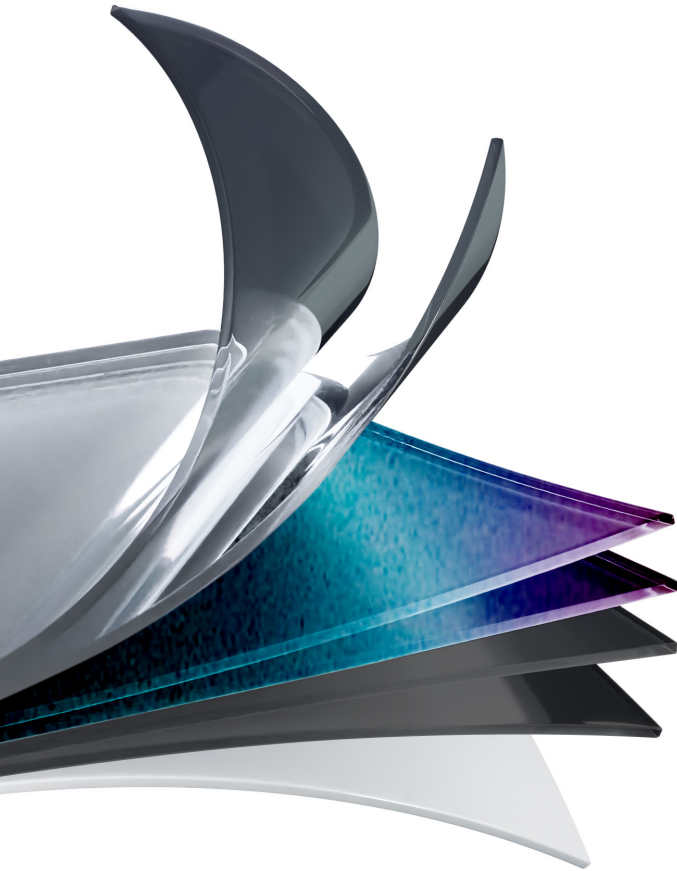
DRYING BEFORE TOP COAT

- After final flash-off, allow the Base Coat to fully dry.
- Wait approximately **20-40 minutes** before applying the Peelclear Top Coat.

TOP COAT MIXING/APPLICATION

Go to section 3 on page:

Ultrashift Pearls Application



2 LAYER - TOP COAT
(GLOSS OR MATTE FINISH)

2 LAYER
BASE COAT + ULTRASHIFT PIGMENT

2 LAYER BASE COAT + COLOR
(BLACK/ WHITE/COLOR)

OEM PAINT

MIX PRIMER COLOR

Mix your primer color (black/white/color) in the Base Coat using Dip N' Dyes. Each Dip N' Dyes jar is premeasured to tint **1/2 gallon of Peelclear Base Coat** (or adjust proportionally for your desired mix ratio). Jet black is the exception, where one 4 oz jar tints 1 Gallon of Base Coat.

1. Pour the Dip N' Dyes jar into the Base Coat.
2. Push the Dip N' Dyes beads down into the liquid so they are fully submerged.
3. Wait approximately **2 minutes** for the beads to begin dissolving.
4. Stir thoroughly with a clean paint stick until the color is **fully dissolved and blended**, with no visible beads remaining. Use a small mixer on slow speed to blend easier.

MIX ULTRASHIFT PEARLS

Mix 50 grams of Pearls in 1 gallon of Base Coat.

1. Pour the Pearls into the Base Coat.
2. Mix the Pearls down into the liquid so they are fully submerged.
3. Stir thoroughly with a clean paint stick until the color is **fully blended**, with no visible clumps remaining. Use a small mixer on slow speed to blend easier.

APPLICATION

1. **Mix your** (black/white/color) **primer color in the Base Coat, and apply a total of 2 layers.**
 - Layer 1: Apply 1 medium-wet coat using a **50/50 overlap. (close cell coat)**
 - Allow to flash until the surface turns matte and is no longer wet.
 - Then start a timer for **15-20 minutes** (ideally at 72F degree) before applying the second coat.
 - Layer 2: Apply a wet coat using a **60/40 overlap. Do not flood the panels!**
 - Typical flash time: **10-20 minutes** (depending on airflow and temperatures).
2. **Mix your desired Ultrashift Pearls in clear Base Coat, and apply another 2 layers.**
3. Spray the **3rd, and 4th coats** as wet coats using a **60/40 overlap. Do not flood the panels!**
 - Allow each coat to flash until the surface becomes matte.
 - Typical flash time: **10-20 minutes** (depending on airflow).

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

DRYING BEFORE TOP COAT

- After final flash-off, allow the Base Coat to fully dry.
- Wait approximately **20-40 minutes** before applying the Peelclear Top Coat.

TOP COAT MIXING/APPLICATION

Go to page:

Peelclear Paint Color Match Application



2 LAYER - TOP COAT
(GLOSS OR MATTE FINISH)

2-3 LAYER
OEM COLOR

~ 4 LAYER (4 MIL) BASE COAT
+ GREY COLOR

OEM PAINT

MIX PRIMER COLOR

Mix your primer color (black/white/grey scale) in the Base Coat using Dip N' Dyes. Each Dip N' Dyes jar is pre-measured to tint **1/2 gallon of Peelclear Base Coat** (or adjust proportionally for your desired mix ratio). Jet black is the exception, where one 4 oz jar tints 1 Gallon of base coat.

1. Pour the Dip N' Dyes jar into the Base Coat.
2. Push the Dip N' Dyes beads down into the liquid so they are fully submerged.
3. Wait approximately **2 minutes** for the beads to begin dissolving.
4. Stir thoroughly with a clean paint stick until the color is **fully dissolved and blended**, with no visible beads remaining, you may also use a mixer on slow.

MIX PEELCLEAR COLOR

Peelclear paint is ready to spray. If requested, Peelclear paint can be supplied in a concentrated form requiring a 1:1 mix ratio with reducer before application.

APPLICATION

1. **Mix your** (black/white/grey scale) **primer color in the Base Coat, and apply a total off 4 layers.**
 2. Apply 1 medium-wet coat using a **50/50 overlap. (close cell coat)**
 - Allow to flash until the surface turns matte and is no longer wet.
 - Then start a timer for **15-20 minutes** (ideally at 72F degree) before applying the second coat.
 3. Apply the **2nd, 3rd, and 4th coats** as wet coats using a **60/40 overlap. Do not flood the panels!**
 - Allow each coat to flash until the surface becomes matte.
 - Typical flash time: **10-20 minutes** (depending on airflow and temperatures).
- Force dry using air movement only, **DO NOT use heat!**
 - Build to approximately **4-5 mils** total film thickness. About Four coats. Additional or fewer coats may be required depending on technique and coverage.

PEELCLEAR PAINT APPLICATION

1. **Apply a total off 2-3 coats untill desired color is achieved.**
- **Layer 1:** Apply 1 medium-wet coat using a **50/50 overlap.**
 - Allow to flash until the surface turns matte and is no longer wet.
 - Typical flash time: **10-20 minutes** (depending on airflow and temperatures).
 - **Layer 2:** Apply a wet coat using a **60/40 overlap.**
 - Allow to flash until the surface turns matte and is no longer wet.

DRYING BEFORE TOP COAT

- After final flash-off, allow the Base Coat to fully dry.
- Wait approximately **20-40 minutes** before applying the Peelclear Top Coat.

TOP COAT MIXING/APPLICATION

Go to page:

TOP COAT APPLICATION

Glossy Top Coat Application

MIX
RATIO **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.

APPLICATION

- Apply 2 wet coats with a 50/50 overlapping pass. Allow 10 to 20 minutes to flash, depending on temperature.
- 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
- You can sand, polish and re-coat after 12 hours of air drying.

REFINING THE FINISH

For an even more uniform result, you can finish the glossy version of the Top Coat just like a conventional clear coat by sanding, polishing and/or flow coating.

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% reducer to the second coat can improve flow and leveling, helping reduce striping and mottling.

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, 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 4 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.

peelclear™

For more information

www.peelclear.com