

Product Information

EC5515, EC5517

Matte and Semi-Gloss Clearcoat System

FOR USE IN NATIONAL RULE AREAS

Product Description

The ENVIROBASE® High Performance Matte Clearcoat System consists of two versatile 2K acrylic urethane clearcoats designed to reproduce a range of low gloss levels, including the specialized repairs of vehicles or areas of vehicles originally finished with a low gloss clearcoat over a single or multistage basecoat color system (e.g. LAMBORGHINI® or MERCEDES-BENZ® full body matte finish). To allow for the normal gloss variations due to color, model, position or repair on vehicle etc., the actual mix of the two clearcoats can be varied to match the vehicle to be repaired.

The EC5515/EC5517 or mixes of the two may also be used over rigid plastics without the need of special additives.

EC5515 Matte and EC5517 Semi-Gloss Clearcoats are designed for use over *Envirobase* High Performance (EHP™) basecoat color with T492 and T493 additive in the basecoat.

Preparation of Substrate



- When masking a repair, care should be taken to minimize direct contact of masking tape onto the original matte finish. When it is necessary to use masking tape directly on the original finish, the tape must be removed before baking to avoid marking of the original which may not recover.



- EC5515/EC5517 clearcoats must be applied on top of a clean and dust-free basecoat. The use of a tack cloth is recommended after the basecoat has flashed off.



- Care should be taken to avoid dirt inclusion at all stages. Rectification of dirt inclusion in matte or low gloss finishes is not possible after the final coat of clearcoat.
- In all cases, wash surfaces to be painted with soap and water and then apply the appropriate PPG substrate cleaner. Ensure that the substrate is thoroughly cleaned and dried, both before and after application work.
- Wet sand with US 500-600 grade paper or dry sand with US 400-500 grade paper.
- Wash off sanding residue and dry thoroughly before re-cleaning with the appropriate PPG substrate cleaner. The use of a tack rag is recommended.

Film Build:

Minimum dry film build:	2.0 mils
Maximum dry film build:	2.5 mils
Recommended wet film build per coat:	2.1 - 3.1 mils
Recommended dry film build per coat:	1.0 - 1.25 mils

Flash Off at 70°F (21°C):

Flash: 3 - 5 minutes between coats

Drying Times:

Between Coats: 15-30 minutes for best results, allow to dry matte*
70°F (21°C)

- Allowing the clearcoat to flash off completely between coats and before baking is important to achieve an even appearance and gloss level over the whole area.



Dust Free: 35-45 minutes
70°F (21°C)



Force Dry*: 15-30 minutes purge time ensuring the clearcoat is completely matte before baking
140°F (60°C) 40 minutes* bake

**Force dry times are quoted for metal temperature. Additional time should be allowed in the force drying schedule to allow metal to reach recommended temperature.*

Overcoat / Recoat:

Overcoat/Recoat Time: 12 hours at 70°F (21°C) or after force dry / cool down

Must be sanded before recoating to ensure proper adhesion



Grade Wet: US 500-600

Grade Dry: US 400-500

Overcoat with: Envirobase High Performance basecoat

Recoat times will be extended at lower temperatures

Performance Guidelines:

The gloss levels achieved with this clear may vary depending upon film thickness and application. Low film thickness and dry application will give a lower gloss level. High film thickness and wetter application will give a higher gloss level. It is recommended that EC5515/EC5517 clearcoats be used only for complete panel repairs.

Technical Data:

RTS Combinations	EC5515/EC5517 : ECH5075 : ECR65/75/85
Volume Ratio	3 : 1 : 1
Applicable Use Category	Clear Specialty Coating
VOC Actual (g/L)	210-215
VOC Actual (lbs./ US gal.)	1.76-1.79
VOC Regulatory (less water, less exempt (g/L)	349-359
VOC Regulatory (less water, less exempt (lbs./ US gal.)	2.92-2.99

Technical Data, Continued:

RTS Combinations	EC5515/EC5517 : ECH5075 : ECR65/75/85
Density (g/L)	1134-1178
Density (lbs. / US gal.)	9.47-9.83
Volatiles wt. %	62.3-62.7
Water wt. %	0
Exempt wt. %	44.0-44.7
Water vol. %	0
Exempt vol. %	39.9-40.3
RTS Solids vol.%	36.1-36.3
RTS Solids wt. %	37.3-37.6
Sq. Ft. Coverage at 1 mil. at 100% transfer efficiency	579-583

HEALTH AND SAFETY

See Material Safety Data Sheet and Labels for additional safety information and handling instructions.



- The contents of this package may have to be blended with other components before the product can be used. Before opening the packages, be sure you understand the warning messages on the labels and MSDS documents of all the components, since the mixture will have the hazards of all of its parts.
- Improper handling and use, for example, poor spray technique, inadequate engineering controls and/or lack of proper Personal protective Equipment (PPE), may result in hazardous conditions or injury.
- Follow spray equipment manufacturer's instructions to prevent personal injury or fire.
- Provide adequate ventilation for health and fire hazard control.
- Follow company policy, product MSDS and respirator manufacturer's recommendations for selection and proper use of respiratory protection. Be sure employees are adequately trained on the safe use of respirators per company and regulatory requirements.
- Wear appropriate PPE such as eye and skin protection. In the event of injury, see first aid procedures on MSDS.
- Always observe all applicable precautions and follow good safety and hygiene practices.

Emergency Medical or Spill Control Information: (412) 434-4515; In Canada (514) 645-1320

Materials described are designed for application by professional, trained personnel using proper equipment and are not intended for sale to the general public. Products mentioned may be hazardous and should only be used according to directions, while observing precautions and warning statements listed on label. Statements and methods described are based upon the best information and practices known to PPG Industries. Procedures for applications mentioned are suggestions only and are not to be construed as representations or warranties as to performance, result, or fitness for any intended use, nor does PPG Industries warrant freedom from patent infringement in the use of any formula or process set forth herein.

GENERAL CARE AND MAINTENANCE OF MATTE FINISHES

The following guidance on Care and Cleaning of matte finish vehicles is aimed at the car owner, and applies to both the OE and repair finish. Particular care must be taken with matte finishes to maintain an original even matte effect. See below for guidance for the car owner on maintaining the even matte effect over time.

Matte/Low gloss finishes can be relatively easily marked with general handling and day to day use (door/hood/deck lid opening, shoe scuffing on entry or exit of vehicle etc.). Care should be taken with these operations because marking or changing of the matte effect could result.

Care should be taken to avoid spillage of fuel onto the matte/low gloss finishes. Fuel spills should be removed as soon as possible using the washing guidelines below to avoid permanent damage or altering of the low gloss effect.

1. To keep the matte surface effect, the use of paint cleaner, abrasives or polishes and wax polishes **must** be avoided. The vehicle **must** not be polished.
 2. Polishing will lead to a higher, uneven gloss effect.
 3. Cleaning with unsuitable materials could alter the matte effect (generally increasing gloss).
 4. Automated car washing should be avoided. The preferred car washing method is by hand with a soft sponge, mild soap and lots of water. Frequent car washing over a period of time could lead to increased and inconsistent gloss levels across a car panel. Washing under direct sunlight should also be avoided.
 5. Insects and bird droppings should be removed immediately. These residues should be soaked in water to soften and/or remove carefully with high pressure cleaning equipment. In the case of strongly adhered residues, a spray on insect remover should be used prior to washing.
 6. Whenever using any type of cleaning fluids with soft sponges or clothes, it is essential not to apply pressure or rub the matte finish. A gentle wipe/spray on, wipe off technique should be used. Applying pressure will alter the matte effect and result in an uneven appearance.
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