

Product Information

EC550 En-V® Ultra Gloss Clearcoat

For use in National Rule Areas

Product Description

The EC550 is a high gloss overall clearcoat designed specifically for use with ENVIROBASE® High Performance Waterborne Basecoat. EC550 has outstanding appearance and gloss retention and is ideal for high temperature and/or large job applications. This premium clearcoat continues the easy to apply characteristics of the *En-V* clearcoat platform and provides a robust application window under extreme conditions. EC550 *En-V* Ultra Gloss Clearcoat is available in all North American refinish markets.

Preparation of Substrate



- Wash all surfaces to be painted with soap and water, then apply the appropriate ONECHOICE®, GLOBAL REFINISH SYSTEM® or DELTRON® cleaner. Ensure that the substrate is thoroughly cleaned and dried both before and after application work.
- Wet sand with US 500-600 / European P800-P1200 grade paper or dry sanding with US 400-500 / European P600-P800 grade paper.
- Wash off residue and dry thoroughly before re-cleaning with appropriate *OneChoice*, *Global Refinish System* or *Deltron* substrate cleaner. The use of a SX1070 *OneChoice* tack rag is recommended.

APPLICATION GUIDE:

Mixing Ratio for EC550 En-V Ultra Gloss Clearcoat



EC550: 3 parts
ECH5075: 1 part
DT8xx/D87x/ECRxx: 1 part



Pot Life at 70°F (21°C): 3 hours

Hardener:

ECH5075 Standard Hardener

Reducer:

DT870/D870 Fast Reducer
DT885/D871 Medium Reducer
DT895/D872 Slow Reducer

ECR65 Low Temp Reducer
ECR75 Mid Temp Reducer
ECR85 High Temp Reducer
ECR98 Hot and Humid Ultra High Temp Reducer

Reducer selection available online TB-014NR *Deltron* NR Reducer Guide

ECR98 is the required retarder for all markets.

Optional Additives:

SL814 Universal Flexibilizer: add 10% to RTS volume
SL93LV: Accelerator: add 2% to RTS quart
DX73 Fisheye Eliminator: add 1 oz. to RTS quart

SL814 Universal Flexibilizer is recommended not required for plastic parts

Spraygun Set-up and Pressure:

Fluid Tip: 1.3 - 1.5 mm
Spray Viscosity: 15 secs DIN4 at 70°F (21°C)
HVLP: 10 maximum psi at the cap
Compliant: 29 - 40 psi at the gun

Note: Refer to the spray gun manufacturer's recommendations for optimum inlet air pressures.

Application:

Apply: 2 medium wet coats

Film Build:

Minimum Dry Film Build: 2.0 mils
Maximum Dry Film Build: 3.5 mils
Recommended film build per coat wet: 2.0 - 2.5 mils
Recommended film build per coat dry: 1.0 - 1.5 mils

Flash Off at 70°F (21°C):

Flash: 10-15 minutes between coats

Drying Times:

Air Dry to Re-assemble: Overnight
70°F (21°C)

Purge Time: 10 - 15 minutes
70°F (21°C)



Force Dry: 35 minutes
140°F (60°C)

Tape Time: 6 hours or overnight
70°F (21°C)

IR (Infrared): N/A

All force dry times are quoted for metal temperature. Additional time must be allowed during force dry to allow metal to reach recommended temperature.

Overcoat / Recoat / Polishing:



Overcoat/Recoat Time: 2 hours after recommended air dry or force dry bake cycle.



Re-Repair: Re-repair area must be sanded appropriately before recoating with primer, color or clearcoat

Overcoat with: *Envirobase* High Performance primer, color or clearcoat.

Polishing: After recommended air dry or force dry and cool down, minor dirt nibs can be removed. Sand with P1500 or finer and follow normal polishing procedures.

Performance Guidelines:

Allow basecoat to thoroughly dry before applying EC550 *En-V* Ultra Gloss Clearcoat. If allowed to dry longer than 24 hours, additional basecoat must be applied before clearcoating. The timing will depend on film thickness, temperature and humidity.

Technical Data:

RTS Combinations	EC550 : ECH5075 : DT8xx/D87x/ ECRxx	EC550 : ECH5075 : DT8xx/D87x/ ECRxx + SL814	EC550 : ECH5075 : DT8xx/D87x/ ECRxx + SL93LV	EC550 : ECH5075 : D87x/DT8xx/ ECRxx + DX73
Applicable Use Category	Clear Coating	Clear Coating (Flexed)	Clear Coating	Clear Coating
Volume Ratio:	3 : 1 : 1	3 : 1 : 1 +10%	3 : 1 : 1 +5%	3 : 1 : 1 + 1 oz./RTS qt.
VOC Regulatory (less water, less exempt (g/L))	241-319	295-350	238-315	272-345
VOC Regulatory (less water, less exempt (lbs./ US gal.))	2.01-2.66	2.46-2.92	1.99-2.63	2.27-2.88
Solids wt. %	40.9-42.3	40.4-41.8	40.6-42.0	39.8-41.2
Solids vol. %	41.8-42.0	40.9	41.5-41.6	40.7
Sq. Ft. Coverage at 1 mil. at 100% transfer efficiency	670-674	656	666-667	653

HEALTH AND SAFETY

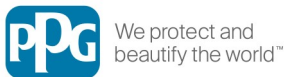
See Safety Data Sheet and Labels for additional safety information and handling instructions.



- 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 SDS of all the components, since the mixture will have the hazards of all 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 SDS 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 SDS.
- Store waterborne and solvent borne waste separately. A competent agent with appropriate certification must handle all waterborne wastes. Wastes must be disposed in accordance with all Federal, State, Provincial and local laws and regulations.
- 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.



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