



# **Product Information**

# EC520 En-V<sup>®</sup> High Production Clearcoat

# **Product Description**

EC520 En-V<sup>®</sup> High Production Clearcoat is engineered specifically for use with ENVIROBASE<sup>®</sup> High Performance Waterborne Basecoat. This clearcoat utilizes the *En-V* Resin technology to meet the throughput demands of any shop while delivering a premium appearance and excellent gloss retention. EC520 is ideal for 1-4 panel repairs with ease of application built into the design, consistent with the characteristics of every *En-V* clearcoat. EC520 *En-V* High Production Clearcoat is compliant in all North American refinish markets.

# **Preparation of Substrate**







- Wash all surfaces to be painted with soap and water, then apply the appropriate ONECHOICE® 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 cleaner. The use of a SX1070 *OneChoice* tack rag is recommended.



#### **APPLICATION GUIDE:**

#### Mixing Ratio for EC520 En-V High Production Clearcoat



 EC520:
 3 parts

 ECH5075:
 1 part

 ECRxx/DT18xx
 1 part

Pot Life at 70°F (21°C):

45 minutes

Hardener:

ECH5075 Standard Hardener

Reducer:

Low Temp Reducer ECR65 DT1845 Compliant Reducer Normal ECR75 Mid Temp Reducer DT1850 Compliant Reducer Medium ECR85 High Temp Reducer DT1855 Compliant Reducer Slow ECR98 Hot and Humid Ultra High Temp Reducer Fast Reducer DT1565

DT1575 Medium Reducer
See reducer selection guide on page 4 for additional information DT1585 Slow Reducer

ECR98 is the required retarder for all markets.

#### **Optional Additives:**



SLV814 Universal Flexibilizer:add 10% to RTS volumeSL93LV Acceleratoradd 2% to RTS volumeSLV73 Fisheye Eliminator:add 1 oz. to RTS quart

SLV814 Universal Flexibilizer is recommended not required for plastic parts

## Spray Gun Set-up and Pressure:



Fluid Tip:

Spray Viscosity:

HVLP:

Compliant:

1.2 - 1.4 mm

14 - 15 secs DIN4 at 70°F (21°C)

10 maximum psi at the cap

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 milsMaximum dry film build:3.5 milsRecommended wet film build per coat:2.0 - 2.5 milsRecommended dry film build per coat:1.0 - 1.5 mils

# Flash Off at 70°F (21°C):



**Flash:** 3 - 5 minutes between coats

# **Drying Times:**



**Dust-free:** 70°F (21°C) 30 - 35 minutes

Air Dry to Re-assemble:

70°F (21°C) 1.5 - 2 hours



Force Dry: 120°F (49°C) 20 minutes

140°F (60°C) 15 minutes - minimize metal temperatures exceeding 140°F (60°C)

**Tape Time:** 1.5 - 2.5 hours

70°F (21°C)

IR (Infrared): NA

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 EC520 *En-V* High Production 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	EC520 : ECH5075 : ECRxx/DT18xx	EC520 : ECH5075 : ECRxx/DT18xx + SLV814 Flex Additive	EC520 : ECH5075 : ECRxx/DT18xx+ SL93LV Accelerator	EC520: ECH5075: ECRxx/DT18xx + SLV73 Fisheye Eliminator
Applicable Use Category	Clear Coating	Clear Coating (Flexed)	Clear Coating	Clear Coating
Weight Ratio:	3:1:1	3:1:1+10%	3:1:1+2%	3: 1 : 1 + 1 oz. RTS qt.
VOC Actual (g/L)	58 - 153	56 - 145	56 - 152	56 - 150
VOC Actual (lbs./ US gal.)	0.48 - 1.28	0.47 - 1.21	0.47 - 1.27	0.47 - 1.25
VOC Regulatory (less water, less exempt (g/L)	114 - 248	114 - 242	113 - 249	114 - 248
VOC Regulatory (less water, less exempt (lbs./ US gal.)	0.95 - 2.07	0.95 - 2.02	0.94 - 2.08	0.95 - 2.07
Density (g/L)	1,117 - 1,176	1,125 - 1,180	1,121 - 1,178	1,119 - 1,176
Density (lbs./ US gal)	9.32 - 9.81	9.39 - 9.85	9.36 - 9.83	9.34 - 9.81
Volatiles wt.%	56.0 - 58.3	57.4 - 59.8	57.0 - 59.2	57.1 - 59.6
Water wt.%	0.0	0.0	0.0	0
Exempt wt.%	42.2 - 53.3	44.6 - 54.9	43.4 - 54.3	43.8 - 54.7
Water vol.%	0.0	0.0	0.0	0
Exempt vol.%	38.0 - 49.1	39.9 - 50.5	38.8 - 50.1	39.4 - 50.6
RTS Solids vol.%	43.9 - 44.0	42.9 - 3.0	43.2 - 43.3	42.8 - 42.9
RTS Solids wt.%	41.7 - 44.0	40.2 - 42.6	40.8 - 43.1	40.4 - 43.0
Sq. Ft. Coverage at 1 mil. at 100% transfer efficiency	704 - 706	688 - 690	693 - 695	687 - 688

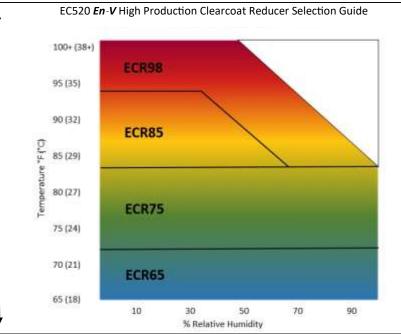
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#### EC520 En-V High Production Clearcoat Reducer Selection Guide

**Higher Air Movement** Temperature and Humidity (Larger)

Average Air Flow & Humidity 12,000-24,000 CFM - 30%-90% RH

**Lower Air Movement** Temperature and Humidity (Smaller)



For Repairs greater than 3 panels consider using the next higher temperature reducer

Temperature, Air Flow, Humidity and Size of the Repair will affect Reducer selection

#### **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 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 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.
- 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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