



GLOBAL REFINISH  
SYSTEM

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# Product Information

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## Fast Clear D8101

### Product Description

Global Refinish System D8101 is a premium quality high solids clearcoat specifically formulated for today's high production shop. D8101 is designed for spot and panel repairs and is out of dust in a matter of minutes. It can be polished if desired, the same day.

D8101 is designed to be used over Global BC Colour (see Data Sheet EU02).

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### Preparation of Substrate



In all cases, wash all surfaces to be painted with soap and water, then apply the appropriate Global cleaner. See GLG-142 Global Cleaners bulletin for selection and usage instructions.

Ensure that the substrate is thoroughly cleaned and dried both before and after application work.



Wet sand with European P800 – 1200 / U.S. 500 – 600 grade paper or dry sanding with European P600 – 800 / U.S. 400 – 500 grade paper.



Wash off residue and dry thoroughly before recleaning with appropriate Global substrate cleaner.

The use of a tack rag is recommended. Apply Global BC Colour over original stoved finishes or over recommended Global Primers.

See Data Sheet EU02 for Global BC system application details.

## APPLICATION GUIDE

### Mix Ratio:



**D8101 Fast Clear :** 3 vols  
**D8201 Hardener :** 1 vol  
**D-Thinner :** 1 vol



*Potlife:*  
@ 20°C / 68°F 1½ hours

### Thinner Selection:

D870 : Up to 18°C / 65 °F  
D871 : 18° – 25°C / 65° – 77°F  
D872 : 25° – 35°C / 77° – 95°F  
D873 : Over 35°C / 95°F

### Additives:



Use D759 Matting base to *flatten* D8101 Clear  
Use D814 Plasticiser to *flexibilize* D8101 Clear

### Spraygun set-up:



*Fluid Tip* 1.3 – 1.5 mm or equivalent  
*Spray Viscosity* 15 – 20 secs #2 ZAHN (Signature type) @ 20°C / 68°F

### Spray pressure:

*HVLP at air cap* 0.7 bar / 8 – 10 PSI  
*Conventional at spray gun* 3 – 4 bar / 45 – 55 PSI

### Number of coats:



*Apply* 2 coats  
Film build per wet coat 2.4 – 2.8 mils  
Dried film build per coat 1.2 – 1.4 mils

### Flash off at 20°C / 68°F:



*Between coats* 2 – 5 minutes  
*Before stoving* 0 – 10 minutes

### Drying times:



*Dust-free* 20°C / 68°F 4 – 8 minutes  
*Dry to handle* 20°C / 68°F 4 hours minimum  
60°C / 140°F 10 – 15 minutes



*Tape Time* 20°C / 68°F 4 – 6 hours  
60°C / 140°F 10 – 15 minutes



*Through Dry* 20°C / 68°F 8 hours  
60°C / 140°F 15 minutes



*IR (Infrared)* Medium Wave 15 minutes  
Short Wave 8 minutes

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

## APPLICATION GUIDE

### Overcoat/Recoat



*Overcoat/Recoat Time*

After 2 hours at 20°C (68°F) or after force dry/cool down.  
D8101 must be sanded after 3 days before recoating to ensure optimum adhesion.



*Grade wet*

European P800 – 1200 / U.S. 500 – 600



*Grade dry*

European P600 – 800 / U.S. 400 – 500



*Overcoat with*

Any Global topcoat system

### Performance Guidelines

Allow the Global BC Colour to flash off for 15 minutes (but no longer than 24 hours) before applying D8101 Clear. The timing will depend on thickness and temperature. Recoating times will be extended at lower temperatures. Global D8101 may be sanded with 1200 grit paper or finer and polished when hard, to rectify minor imperfections.

#### *Fading Out - D8101 Clear*

After spot repairing, clean the gun and then spray **D8753 Blend Ease Univesal Blending Clear** around the repaired area to lose the edge and blend the repair into the surrounding panel. Spray starting from the outside of the repair, moving to the center.

### Technical Data:

#### Total dry film build

Minimum	50µ / 2.0 mils
Maximum	62.5µ / 2.5 mils
Recommended film build per wet coat	2.4 – 2.8 mils
Recommended dried film build per coat	1.2 – 2.4 mils

#### Theoretical coverage

15.2 m<sup>2</sup> per litre / 618.18 sq.ft. per US gal.

*Theoretical coverage in m<sup>2</sup>/litre and sq.ft./US gal. Ready-to-spray (RTS), giving 25µ (1 mil) dry film thickness.*

#### Percent solids by volume RTS

38.5

#### VOC

D8101	436.8 gms per litre / 3.64 lbs. per US gal.
D8101 : D8201 : D872 (3:1:1)	498 gms per litre / 4.16 lbs. per US gal.

### Product Compatibility:

D8101 may be applied over any Global basecoat.

### 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's 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.
- Always observe all applicable precautions and follow good safety and hygiene practices.

## Fast Clear

### Mix Ratio:



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**D-Thinner :** 1 vol

#### Thinner Selection:

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 D871: 18° – 25°C / 65° – 77°F  
 D872: 25° – 35°C / 77° – 95°F  
 D873: Over 35°C / 95°F

Pot life @ 20°C / 68°F: 1½ hours



### Additives:



Use **D759 Matting base** to *flatten* D8101 Clear  
 Use **D814 Plasticiser** to *flexibilize* D8101 Clear

### Air Pressure:



*HVLP:* 0.7 bar / 8 – 10 PSI  
*Conventional:* 3 – 4 bar / 45 – 55 PSI  
*Fluid tip:* 1.3 – 1.5 mm or equivalent

### Application:



*Apply:* 2 coats  
*Between coats:* 2 – 5 minutes  
*Before stoving:* 0 – 10 minutes  
*Recommended film build:*  
*Per Wet Coat* 2.4 – 2.8 mils  
*Dried Film Build Per Coat* 1.2 – 2.4 mils

### Dry Times:



*Dust-free*  
 20°C / 68°F: 4 - 8 minutes



*Dry to handle*  
 20°C / 68°F: 4 hours minimum  
 60°C / 140°F: 10 – 15 minutes



*Tape Time*  
 20°C / 68°F: 4 – 6 hours  
 60°C / 140°F: 10 – 15 minutes



*Through dry*  
 20°C / 68°F: 8 hours  
 60°C / 140°F: 15 minutes



*IR (Infrared)*  
*Medium wave* 15 minutes  
*Short wave* 8 minutes  
 After 2 hours at 20°C (68°F) or after force dry/cool down

*Dry to Topcoat*  
 20°C / 68°F: D8101 must be sanded after 3 days before recoating to ensure optimum adhesion.

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

**Emergency Medical or Spill Control Information (304) 843-1300; 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, results, 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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