
Product Information

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).

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 m² per litre / 618.18 sq.ft. per US gal.

Theoretical coverage in m²/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

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D-Thinner : 1 vol

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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

Pot life @ 20° C / 68° F: 1 1/2 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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