

# Product Information

# **DG Direct Gloss Color**

# **Product Description**

Global Refinish System DG is a high-performance two-pack acrylic urethane topcoat designed for the direct gloss repair and refinishing of cars and commercial vehicles.

The performance of Global Refinish System DG in a recommended Global repair system meets or exceeds motor manufacturer warranty requirements and the Global Refinish System carries many OEM approvals.

# **Preparation of Substrate**



Apply over original baked finishes or over recommended Global primers.



In all cases, wash all surfaces to be painted with soap and water and then apply the appropriate Global cleaner. See EU-134 Global Cleaners bulletin for selection and usage instructions. Ensure that the substrate is thoroughly cleaned and dried both before and after application work.



Apply DG Color after wet sanding with U.S. 400-500 / European P600 – 800 grade paper or dry sanding with U.S. 360-400 / European P400 – 600 grade paper.

Wash off residues and dry thoroughly before recleaning with appropriate Global substrate cleaner. The use of a tack rag is recommended.



#### **APPLICATION GUIDE:**

# Mix Ratio: Using DX88x Hardeners



DG Color: 4 vols
DX88x Hardener: 1 vol
Thinner: 2 vols

Potlife: 1 - 3 hours @ 68°F / 20°C

Note: D885 or D886 can be added to DG Color if necessary (see additives section below).

Use the below chart to choose a Hardener and Thinner according to the application temperature:

Hardener Selection		Thinner Selection	
D884	Air Dry / General Purpose	D870	Up to 65°F / 18°C
D887	Baking / Mar Resistance	D871	65° – 77°F / 18° – 25°C
		D872	77° – 95°F / 25° – 35°C
		D873	Over 95°F / 35°C
		D8700	May replace up to 25% of D873 in very hot conditions

For exceptional conditions of temperature and humidity (>95°F /35°C and >70%) the use of D8700 Retarder, D873 Very Slow Thinner and/or D886 Extender are recommended.

#### Mix Ratio: Using DX837x Hardeners



DG Color: 3 vols
DX837x Hardener: 1 vol

Thinner:  $1 - 1^1/_2$  vols

Potlife: 1 - 3 hours @ 68°F / 20°C

Note: D885 or D886 can be added to DG Color if necessary (see additives section below).

Use the below chart to choose a Hardener and Thinner according to the application temperature:

Hardener Selection	Thinner Selection	
D8371 up to 85°F (29°C)	D870	Up to 65°F / 18°C
D8372 85° - 95°F (29° - 35°C)	D871	65° – 77°F / 18° – 25°C
D8373: 95°F and above (35°C)	D872	77° – 95°F / 25° – 35°C
Do not use D8370 in DG	D873	Over 95°F / 35°C
Do not use Dog/o in DG	D8700	May replace up to 25% of D873 in very hot conditions

For exceptional conditions of temperature and humidity (>95°F /35°C and >70%) the use of D8700 Retarder, D873 Very Slow Thinner and/or D886 Extender are recommended.

#### **Additives:**



D814 Plasticiser\*Mix at 2:1:1:1 (DG: Hardener: D Thinner: D814)D885 EnhancerTo enhance cure, add 1/2 - 1 oz. per (RTS) U.S. quart.D886 ExtenderTo extend flow, add 1/2 oz. per (RTS) U.S. quart.

\*See EU47 for further information on D814 Plasticiser.

Note: The addition of additives will affect the VOC level.

# Spraygun set-up:



 Fluid tip
 1.4 – 1.6 mm or equivalent

 Spray Viscosity
 18 –22 ZAHN #2 @ 68°F / 20°C

# **Spray pressure**

HVLP 10 PSI (at air cap)

Conventional 45 – 55 PSI (at spray gun)

#### **APPLICATION GUIDE**

#### Number of coats:



Apply2 coats or to hidingFilm Build Per Wet Coat3.0 - 3.7 milsDried Film Build Per Coat1.1 - 1.3 mils

#### Flash off at 68°F / 20°C:



Between coats10 minutesBefore Baking0-10 minutes

# **Drying times:**



*Dust Free* 68°F / 20°C 30 – 50 minutes

*Tack Free* 68°F / 20°C 2 − 3¹/₂ hours

Tape Time
68°F / 20°C
140°F / 60°C
8 – 10 hours
30 minutes

 Air dry

 68°F / 20°C
 20 hours

 140°F / 60°C
 30 minutes

IR (Infrared)Medium Wave 10 – 15 minutes depending on color. Short Wave 8 minutes depending on color

**Note:** Bake times are for quoted metal temperatures. Additional time should be allowed in the bake schedule to allow metal to reach recommended temperature.

#### Overcoat / Recoat:



Last coat wlclear Global Clears may be added to the last coat provided they are mixed with the same hardeners and thinners

used in the DG Color.

Recoat with DG After 8 hours minimum @ 68°F / 20°C or after surface has cooled if baked.

Sanding Sanding is essential before recoating for good adhesion

Grade wet U.S. 500 \ European P800

Grade wet
U.S. 500 \ European P800
U.S. 500 \ European P800

Overcoat With any Global primers, topcoats or clearcoats.

Global clearcoats can be applied after a minimum

2 hours dry.

#### **Performance Guidelines:**

After spot repairing, clean the gun and then mist **D8753 Blend-Ease Universal Blending Solvent** (See EU-136 for instructions) around the repaired area to lose the edge or blend the repair into the surrounding panel. Spray starting from the outside of the repair, moving to the center.

The use of HVLP spray equipment can increase transfer efficiency by about 10% depending on the make and model of equipment used.

Recoating times will be extended at lower temperatures.

Global Refinish System DG may be sanded with 1200 grit paper or finer and polished when hard, to rectify minor imperfections.

#### **Technical Data:**

#### Total dry film build:

Minimum	2 mils
Maximum	3 mils

**Theoretical coverage:** 264 – 321 sq.ft. per U.S. gal. *Theoretical coverage in US gal. ready-to-spray (RTS), giving 2 mils dry film thickness.* 

**Percent solids by volume RTS:** 32.9 - 40.0

VOC

/UC	
DG Color (Package) VOC Actual	3.80 – 4.70 lbs/gal / 455 – 563 g/L
DG Color (Package) VOC Regulatory (Less Water Less Exempts)	3.80 – 4.70 lbs/gal / 455 – 563 g/L
DG: D88x: D87x (4:1:2) VOC Regulatory (Less Water Less Exempts)	4.41 – 4.92 lbs/gal / 528 – 590 g/L
DG: D837x: D87x (3:1:1) VOC Regulatory (Less Water Less Exempts)	4.17 – 4.71 lbs/gal / 500 – 564 g/L
DG: D837x: D87x (3:1:1½) VOC Regulatory (Less Water Less Exempts)	4.43 – 4.93 lbs/ga / 531 – 591 g/L
DG : D88x : D87x : D814 (2:1:1:1) VOC	4.42 – 4.78 lbs/gal / 530 – 573 g/L

# **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.

Regulatory (Less Water Less Exempts)

- 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, 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.

# **PPG Automotive Refinish**

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