



AUTOMOTIVE REFINISH

GLOBAL  
REFINISH  
SYSTEM



# Product Information

PRE-FLEXED MATTE CLEAR

## D8102

### Product Description

Global Refinish System D8102 Pre-Flexed Matte Clear is a premium, pre-flexed and pre-flattened clear in one package. It can be blended with a variety of Global clears to achieve the gloss level desired. D8102 is used in some low gloss clear formulas to match OEM gloss requirements. D8102 will allow the blended clear to fit the "Speciality Coating" category in VOC regulated areas under both anti-glare safety and elastomeric coating designations.

D8102 is designed to be used over Global BC Colour (see Data Sheet EU02).

### Preparation of Substrate



Wash all surfaces to be painted with soap and water. Degrease all surfaces with appropriate Global substrate cleaner (See GLG-142 Global Cleaners bulletin for selection and usage instructions)



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.

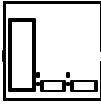


Wash off residue and dry thoroughly before recleaning with appropriate Global substrate cleaner. The use of a tack rag is recommended.

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

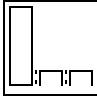
### Mixing Ratio for a flat finish



D8102	6 vols
Hardener D884 or D887	1 vol
Thinner D870/D871/D872*	1 vol

### Mixing Ratio for a matte or satin finish

You can increase the gloss of D8102 to Matte or Satin with D890, D893, D894 or D8101.



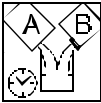
Use the table below then use the following mix ratio

D8102 and D Clear	4 vols
Hardener D884 or D887	1 vol
Thinner D870/D871/D872*	1 vol

\*For exceptional conditions of temperature and humidity (> 35°C / 95°F and >70% RH) the use of **D873 Very Slow Thinner** is recommended.

Blending by Weight	Hardener	Gloss	Grams D8102	Grams D Clear
D890	D884	Matte	97	3
	D887	Matte	95	5
D890	D884	Satin	93	7
	D887	Satin	90	10
D893	D884	Matte	95	5
	D887	Matte	90	10
D893	D884	Satin	85	15
	D887	Satin	80	20
D894	D884	Matte	95	5
	D887	Matte	95	5
D894	D884	Satin	85	15
	D887	Satin	80	20
D8101	D884	Matte	95	5
	D887	Matte	90	10
D8101	D884	Satin	85	15
	D887	Satin	80	20
Blending by Volume	Hardener	Gloss	Parts by Volume D8102	Parts by Volume D Clear
D890	D884	Matte	10	1/3
	D887	Matte	10	1/2
D890	D884	Satin	10	3/4
	D887	Satin	9 1/2	1
D893	D884	Matte	10	1/2
	D887	Matte	9 1/2	1
D893	D884	Satin	9	1 1/2
	D887	Satin	8 1/2	2
D894	D884	Matte	10	1/2
	D887	Matte	10	1/2
D894	D884	Satin	9	1/2
	D887	Satin	8 1/2	2
D8101	D884	Matte	10	1/2
	D887	Matte	9 1/2	1
D8101	D884	Satin	9	1 1/2
	D887	Satin	8 1/2	2

### Potlife



2-3 hours @ 20°C / 68°F

### Additives



D885 for enhanced cure. Add 1/2 oz. per (RTS) U.S. qt.  
 D886 to extend flow in higher temperatures.  
 Add 1/2 oz. per (RTS) U.S. qt.  
 The addition of additives will affect the VOC level

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## APPLICATION GUIDE

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### Spraygun set-up



1.3 mm or equivalent

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### Spray pressure

*HVLP at air cap*

0.7 bar / 10 PSI

*Conventional at spray gun*

3 - 4 bar / 45 - 55 PSI

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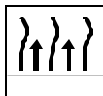
### Number of coats



2

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### Flash off at 20°C / 68°F



*Between coats*

5 - 10 minutes

*Before stoving*

0 - 15 minutes

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### Drying times



*Dust-free*  
20°C / 68°F:

20 - 30 minutes\*



*Dry to handle*  
20°C / 68°F:

4 hours\*



*Through dry (Tape Time)*  
20°C / 68°F:

8 hours\*



*Through dry*  
60°C / 140°F

10 - 15 minutes\*\*

*Through dry IR medium*

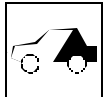
15 minutes

\* Air dry times using D884.

\*\* Force drying times are for quoted metal temperature. Additional time should be allowed in the force drying schedule to allow metal to reach recommended temperature.

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### Overcoat /Recoat



Recoat after force dry/cool down or  
1 hour at 20°C (68°F)



May be sanded after force dry/cool down +2 hours or  
10 hour at 20°C (68°F)

D8102 must be sanded after 72 hours before  
recoating to ensure good adhesion

European P800 -P1200 U.S. 500 - 600

European P600 -P800 U.S. 400 - 500

*Grade wet*

*Grade dry*



Overcoat or recoat with any Global Sealer or Topcoat

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### **Performance Guidelines**

Fading out D8102

After spot repairing, clean the gun and then spray Global Blending Thinner D853 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.

Allow the Global BC Colour to flash off for 15 minutes (but no longer than 24 hours) before applying D8102 Clear. The timing will depend on thickness and temperature.

Recoating times will be extended at lower temperatures. Global D8102 may be sanded with U.S. 1200 grit paper or finer and polished when hard, to rectify minor imperfections.

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### **Technical Data**

#### **Total dry film build:**

minimum	50?m / 2.0 mils
maximum	75?m / 3.0 mils

<b>Theoretical coverage</b>	10.2 m <sup>2</sup> per l / 417 sq. ft. per gal.
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<b>Percent solids by volume RTS</b>	37.9
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#### **VOC**

(D8102)	643 gms per litre / 5.4 lbs. per U.S. gal.
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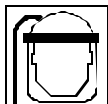
(D8102:D884:D872) (6:1:1)	612 gms per litre / 5.1 lbs. per U.S. gal.
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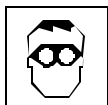
### **Health and Safety**

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

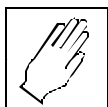
-The contents of this package may have to be blended with other components before the product can be used. Before opening the packages, be sure you understand the warning messages on the labels and MSDS's of all the components, since the mixture will have the hazards of all its parts.



-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.

### **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.

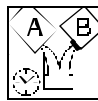
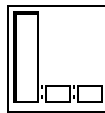
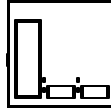
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# GLOBAL AT A GLANCE D8102

## Pre-Flexed Matte Clear

### MIX:



### MIX D8102 Pre-Flexed Matte Clear

<u>D8102</u>	:	<u>D884/D887</u>	:	<u>THINNER</u>
6	:	1	:	1

### MIX D8102 Pre-Flexed Matte Clear /Global Clear - Matt or Satin Finish

<u>D8102</u> <u>Premixed with</u> <u>D890, D893, D894 or D8101 Clear</u>	:	<u>D884/D887</u>	:	<u>THINNER</u>
4	:	1	:	1

\*Add 1/2. fl. oz. per ready to spray (RTS) U.S. quart of D885 for enhanced cure or D886 to extend flow in higher temperatures.

Pot life: 2-3 hour @ 20°C (68°F)

### Air Pressure:



HVLP: 0.7 Bar / 10 PSI at the air cap  
 Conventional: 3 - 4 Bar / 45 - 55 PSI at the gun  
 Fluid tip: 1.3 mm or equivalent

### Application:



Apply: 2 Coats

### Dry Time:



Between coats: 5 - 10 minutes  
 Before stoving 0 - 15 minutes

Through dry: 8 hours @ 20°C (68°F)  
 10-15 minutes @ 60°C (140°F)

I.R. Medium 15 minutes

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