



GLOBAL REFINISH
SYSTEM

Product Information

Basecoat Color (BC/BCI)

Product Description

The Global BC system consists of high opacity solid and metallic basecoat colors that require a clearcoat. It is designed for the repair of vehicles originally finished in a basecoat / clearcoat system.

Used in conjunction with a recommended Global repair system, Global BC meets or exceeds the performance requirements of motor manufacturer paint system warranties. Global BC carries a large number of OEM approvals.

Global BCI Color was developed for interior color matching. BCI color does not require clearcoating. It may only be used over properly prepared interior or under hood areas.

Preparation of Substrate



Apply Global BC Color over original stoved finishes or over recommended Global Primers.



In all cases, wash all surfaces to be painted with soap and water, 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.



Wet sand with U.S. 500 – 600 / European P800 – 1200 grade paper or dry sanding with U.S. 400 – 500 / European P600 – 800 grade paper. Sanded primer-surfacers must be sealed before applying black BC/BCI.

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

APPLICATION GUIDE

Mixing Ratio:



BC Color 1 vol* or BCI Color 1 vol*
Thinner 1 vol Thinner 1/2 – 1 vol

*D9700 Basecoat Black may be reduced 50-100%

*D888 **must** be added to both layers of a tri-coat color. (See *additives section below*). For tricoat systems use only clearcoats with RTS VOC 4.17 lbs/US gal or lower to meet Multistage limit of 5.20 lbs/gal, clear coat RTS VOC 3.77 lbs/US gal or lower to meet Multistage limit of 5.00 lbs/US gal.

Note: *Sanded primer-surfacers must be sealed when topcoating with Black BC/BCI*

Use the below chart to choose thinner according to the application temperature:

Thinner Selection:

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

Do not use D8700 Retarder in basecoat

Faster thinner may be needed for smaller jobs

Potlife:



@ 68°F / 20°C

No limit w/out D888 Activator
2 hours with D888 Basecoat Activator
(Stir well before using)

Additives:



D888 Basecoat Activator

Add 1.6 oz per ready to-spray quart or 5% per ready-to-spray volume.

Spraygun set-up:



1.3 – 1.5 mm or equivalent

Spray pressure:

HVLP at air cap

7 - 10 PSI / 0.5 – 0.7 bar

Conventional at spray gun

40 - 55 PSI / 3 - 4 bar

Number of coats:



2 normal coats (or to hiding)
An optional light coat can be applied immediately after the last coat, to correct metallic orientation.

Flash off at 68°F / 20°C:



Between coats

5 – 10 minutes

Optional light coat

Immediately, for metallic control on last coat

Drying times:



Dust-free 68°F / 20°C

5 – 10 minutes (10 – 15 minutes with D888)

Tack-free 68°F / 20°C

10 – 20 minutes (20 – 30 minutes with D888)



Tape-free 68°F / 20°C

20 – 40 minutes (30 – 60 minutes with D888)

To Clearcoat 68°F / 20°C

15 minutes minimum (24 hours maximum)

After 24 hours, surface must be sanded and basecoat color reapplied.

APPLICATION GUIDE

Overcoat / Recoat:



Clearcoat

With any Global Clear having a RTS VOC less exempt solvents of 4.20 lbs/gal or lower.

See notes in Mixing Ratio and VOC data for tricoat recommendations

Performance Guidelines:

Recoating times will be extended at lower temperatures.

Fading Out Global BC – The use of **Global D895 Color Blender** or **D8753 Blend Ease** is recommended when blending metallic and mica basecoat colors. (See Global Bulletin EU-113 or EU-136 for additional information on blending).

Technical Data:

Total dry film build guidelines	Minimum 0.4 mil / 10µm Maximum 1.5 mils / 38µm
Theoretical coverage	134 – 265 sq. ft. per US gal. / 3.3 – 6.5 m ² per litre <i>Note: Theoretical coverage in sq.ft./US gal. (m² /litre) ready-to-spray (RTS), giving 1 mil (25 µm) dry film thickness.</i>
Percent solids by volume RTS	8.4 – 16.5
VOC	
Package VOC Actual	5.38 – 6.08 lbs. per US gal. / 645 – 729 gms per litre
Package VOC Regulatory (Less Water, Less Exempts)	5.38 – 6.08 lbs. per US gal. / 645 – 729 gms per litre
1 : 1 RTS VOC Regulatory (Less Water, Less Exempts)	6.26 – 6.59 lbs. per US gal. / 750 – 790 gms per litre
1 : 1/2 RTS VOC Regulatory (Less Water, Less Exempts)	5.95 – 6.42 lbs. per US gal. / 713 – 769 gms per litre
10 : 10 : 1 RTS VOC Regulatory (Less Water, Less Exempts)	6.02 – 6.35 lbs. per US gal. / 713 – 761 gms per litre
BC (tricoat colors)*	
Package VOC Actual	5.38 – 5.81 lbs./US Gal (645 - 696 g/l)
Package VOC Regulatory (Less Water Less Exempts)	5.38 – 5.81 lbs./US Gal (645 - 696 g/l)
10:10:1 RTS VOC Regulatory (Less Water Less Exempts)	6.02 – 6.23 lbs./US Gal (713 - 747 g/l)

* Note the D888 requirement for all layers of BC color. For tricoat systems use clear coat with a ready to spray VOC maximum of 4.17 lbs/US gal to meet the tricoat Multistage limit of 5.20 lbs/US gal. For tricoat systems use clear coat with a ready to spray VOC maximum of 3.77 lbs/US gal to meet the tricoat Multistage limit of 5.00 lbs/US gal.

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 (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.

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