

Basecoat Colour

EU-02

BC/BCI



GLOBAL REFINISH
SYSTEM™

Product Description:

GLOBAL REFINISH SYSTEM™ Basecoat system consists of high opacity solid and metallic basecoat Colours 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 Refinish System* repair system, *Global Refinish System BC* meets or exceeds the performance requirements of motor manufacturer paint systems warranties. *Global Refinish System BC* carries a large number of OEM approvals.

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

Preparation of Substrate:



- Apply *Global Refinish System BC* Colour over original stoved finishes or over recommended *Global Refinish System* undercoats. E-Coat must be primed or sealed prior to the application of BC Colour.
- In all cases, wash all surfaces to be painted with soap and water, then apply the appropriate *Global Refinish System* cleaner. See EU-134 *Global Refinish System 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-P1200 / US 500-600 grade paper or dry sand with European P600-P800 / US 400-500 grade paper. Sanded primer-surfacers must be sealed before applying black BC/BCI.
- Wash off residue and dry thoroughly before recleaning with appropriate *Global Refinish System* substrate cleaner.
- The use of a tack rag is recommended.

Required Products

Thinner

D870	Fast Thinner - up to 65°F (18°C)
D871	Medium Thinner 65-77°F (18-25°C)
D872	Slow Thinner 77-95°F (25-35°C)
D873	Very Slow Thinner 95°F (35°C) and over

Faster thinner may be needed for smaller jobs

BC/BCI

Mix Ratios:



BC Colour: 1 Vol.* or BCI Colour: 1 Vol.*
 D Series Thinner: 1 Vol. D Series Thinner: ½-1 Vol.

*D9700 Basecoat Black may be reduced 50-100%

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

Pot Life:



No limit w/out D888 Activator at 68°F (20°C)
 2 hours at 68°F (20°C) with D888 Basecoat Activator (stir well before using)

Additives:



D888 Basecoat Activator: Add 1.6 oz. per RTS quart or 5% per RTS spray volume

Spraygun Setup:



Fluid Tip: 1.3-1.5 mm or equivalent

Spray Pressure:

HVLP: 7-10 psi at the air cap
Compliant: 29-40 psi at the gun

Note: For best overall results, refer to spraygun manufacturer's recommendations for inlet air pressures.

Number of Coats:



Apply: 2 normal coats (or until hiding)

An optional light coat can be applied immediately after the last coat, to correct metallic orientation.

Drying Times:



Between Coats: 5-10 minutes
 68°F (20°C) (Immediately for metallic control on last coat)

Dust Free: 5-10 minutes (10-15 minutes with D888)
 68°F (20°C)



Tape Time: 20-40 minutes (30-60 minutes with D888)
 68°F (20°C)

Dry to Clearcoat: 15 minutes minimum (24 hours maximum)
 68°F (20°C) *After 24 hours, surface must be sanded and basecoat Colour reapplied.*

Overcoat/Recoat:



Clearcoat: With any Global Refinish System having a RTS VOC less exempt solvents of 4.20 lbs./ US 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 Refinish System BC - The use of Global Refinish System D895 Colour Blender (See EU-113) or ONECHOICE® SX840 or SXA840 Uniform Finish Blender (See OC-03) is recommended when blending metallic and mica containing basecoat colours.

BC/BCI

Technical Data:

Total dry film build:

Minimum:	10.0µm / 0.4 mils
Maximum:	38µm / 1.5 mils

RTS Combinations	BC	BC : D87x	BC : D87x : D888	BC (Tricoat Colours)*
Volume Ratio	Package	1 : ½ – 1	10 : 10 : 1	10 : 10 : 1
Applicable Use Category	Multi-Stage Basecoat	Multi-Stage Basecoat	Multi-Stage Basecoat	Multi-Stage Ground Coat/ Midcoat
VOC Actual (g/L)	645-729	713-790	687-761	687-743
VOC Actual (lbs./ US Gal.)	5.38-6.08	5.95-6.59	5.74-6.35	5.74-6.23
VOC Regulatory (g/L) less water, less exempt	645-729	713-790	687-761	687-743
VOC Regulatory (lbs./ US Gal.) less water, less exempt	5.38-6.08	5.95-6.59	5.74-6.35	5.74-6.23
Solids Volume %	16.8-33.0	8.4-16.5	11.4-19.5	11.4-19.5
Theoretical coverage in sq. ft. / US Gal at 1 mil dry film thickness	n/a	134-265	183-313	183-313
Theoretical coverage in m ² /litre RTS at 25 µm dry film thickness	n/a	3.3-6.5	4.5-7.7	4.5-7.7

*Note the D888 requirement for all layers of BC Colour. 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:



- 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 SDS's of all the components, since the mixture will have the hazards of all of 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 SDS 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 SDS.
- Always observe all applicable precautions and follow good safety and hygiene practices.

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



Important: The contents of this package must 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 of all components since the mixture will have the hazards of all its parts. Improper spray technique may result in a hazardous condition. Follow spray equipment manufacturer's instructions to prevent personal injury or fire. Follow directions for respirator use. Wear eye and skin protection. Observe all applicable precautions.

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 public. Products mentioned may be hazardous and should only be used according to direction, 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
19699 Progress Drive
Strongsville, OH 44149
800.647.6050

PPG Canada Inc.
2301 Royal Windsor Drive, Unit #6
Mississauga, Ontario L5J 1K5
888.310.4762

Follow us online:  
www.ppgrefinish.com

PPG Automotive Refinish
Bringing innovation to the surface.™



The PPG Logo, Bringing innovation to the surface, and Global Refinish System are trademarks of PPG Industries Ohio, Inc.

© 2015 PPG Industries, Inc. All rights reserved.

Product Information Effective 11/15

Basecoat Colour

Mix:



BC Colour : **D87x Thinner**
1 : 1



BCI Colour : **D87x Thinner**
1 : 1/2-1

Thinner

D870 Fast Thinner - up to 65°F (18°C)
D871 Medium Thinner 65-77°F (18-25°C)
D872 Slow Thinner 77-95°F (25-35°C)
D873 Very Slow Thinner 95°F (35°C) and over

Faster thinner may be needed for smaller jobs

D888 **must** be added to both layers of a tri-coat Colour. (See additives section)

Additives:



D888 Basecoat Activator: Add 1.6 oz. per RTS quart or 5% per RTS spray volume

Pot Life:



No limit w/out D888 Activator at 68°F (20°C)
2 hours at 68°F (20°C) with D888 Basecoat Activator (stir well before using)

Air Pressure:



HVLP: 0.5-0.7 bar / 7-10 psi at the air cap
Compliant: 29-40 psi at the gun
Fluid Tip: 1.3-1.5 mm or equivalent

Application:



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

Dry Times:



Between Coats: 5-10 minutes
68°F (20°C) *(Immediately for metallic control on last coat)*



Dust Free: 5-10 minutes (10-15 minutes with D888)
68°F (20°C)

Tape Time: 20-40 minutes (30-60 minutes with D888)
68°F (20°C)

Dry to Clearcoat: 15 minutes minimum (24 hours maximum)
68°F (20°C) *After 24 hours, surface must be sanded and basecoat Colour reapplied.*



Clearcoat: With any *Global Refinish System* having a RTS VOC less exempt solvents of 4.20 lbs./ US Gal. or lower.

Recoating times will be extended at lower temperatures.