



VB-24NR

DITZLER® Custom Clear (National Rule)

VC5700

VC5700 DITZLER® brand Custom Clear is a high build, easy to apply urethane clearcoat that provides a deep, high gloss appearance perfect for a show quality finish.

VC5700 is specifically designed for custom shops. VC5700 fills tape lines and graphics, has great vertical hold and is very easy to polish. It can also be used as a lock down clear to protect and level graphics and provide a layer to sand prior to flow coating.

This bulletin is for use in National Rule refinish markets. For use in low VOC compliant refinish markets, see bulletin VB-24.

For procedures relating to custom and/or restoration work refer to PPG's Custom Restoration Guide available at



Compatible Products and Systems

VC5700 Ditzler Custom Clear clearcoat can be used over the systems shown below:

- DELTRON® DBC 2000 Refinish System - Follow P-175 *Deltron* DBC recommendation for proper preparation and compatible primers.
- DELTRON® NXT Refinish System - Follow P-251 *Deltron* NXT recommendation for proper preparation and compatible primers.
- ENVIROBASE® High Performance Refinish System - Follow EB-143 *Envirobase* High Performance recommendations for proper preparation and compatible primers.
- VIBRANCE COLLECTION® topcoat systems - Follow specific product bulletin recommendations for proper preparation and compatible undercoats.

NOTE: Custom or exotic finishes are excluded from coverage under the PPG Paint Performance Guarantee.

Required Products

Hardener

VH7780 *Ditzler* Custom Clear Hardener

VH7795 *Ditzler* Custom Clear Hardener Hi Temp over 90°F (32°C)

Reducer

DT1565 Fast Thinner (55-65°F)

DT1575 Medium Thinner (65-77°F)

DT1585 Slow Thinner (77-90°F)

DT1595 Very Slow Thinner (95+°F)

DT1598 Ultra Slow Thinner (98+°F)

VC5700

Mixing Ratio:

Standard Mix:



VC5700		VH7780 / VH7795		DT15xx
Clearcoat	:	Hardener	:	Reducer
2	:	1	:	1

NOTE: In warm weather conditions, up to 10% of the total reducer can be replaced with DT8110 retarder for improved application.

Cumulative Weight in Parts (Grams)			
Final RTS Volume	VC5700 Clearcoat	VH7780 / VH7795 Hardener	DT15xx Reducer
¼ Pint / 4 oz.	73.6 (65.3)	111.2 (98.6)	138.9 (123.2)
½ Pint / 8 oz.	147.1 (130.5)	222.3 (197.3)	277.8 (246.5)
1 Pint / 16 oz.	294.2 (261.1)	444.7 (394.6)	555.6 (492.0)
1 Quart / 32 oz.	588.5 (522.1)	889.3 (789.1)	1111.2 (986.0)

For Small Parts or as a Lock Down Clear:

VC5700		VH7780		DT1585		EA157
Clearcoat	:	Hardener	:	Reducer	:	Accelerator
2	:	1	:	1	:	1%

Cumulative Weight in Parts (Grams)				
Final RTS Volume	VC5700 Clearcoat	VH7780 Hardener	DT1585 Reducer	EA157
¼ Pint / 4 oz.	73.6 (65.3)	111.2 (98.6)	138.9 (123.2)	140.29 (124.4)
½ Pint / 8 oz.	147.1 (130.5)	222.3 (197.3)	277.8 (246.5)	280.6 (249.0)
1 Pint / 16 oz.	294.2 (261.1)	444.7 (394.6)	555.6 (492.0)	561.2 (507.9)
1 Quart / 32 oz.	588.5 (522.1)	889.3 (789.1)	1111.2 (986.0)	1122.3 (995.9)



Pot Life:

2.5 hours at 70°F (21°C)

Additives:



SL814 Flexibilizer:	5% to RTS by volume
SU4985 Universal Matting Agent:	See ONECHOICE® product bulletin OC-2
EA157 Accelerator:	See ratio above for Lock Down Clear recommendations
SLV898 Retarder:	5% to RTS by volume

Gun Setup:



HVLP:	8 - 10 psi at the air cap
Compliant:	22 - 32 psi at the gun
Gun Setup:	1.3 - 1.5 mm or equivalent

Refer to spraygun manufacturer's recommendations for inlet air pressures.

Application:



Apply:	2 - 4 wet coats
Dry Film Build Per Coat:	1 - 1.5 mils

Drying Times

**Standard Mix:**

Between Coats:	10 - 15 minutes at 70°F (21°C)
Dust Free:	60 - 90 minutes at 70°F (21°C)
Tape Time:	12 - 16 hours at 70°F (21°C)

Lock Down Clear:

Between Coats:	2 - 5 minutes at 70°F (21°C)
Dust Free:	30 minutes at 70°F (21°C)
Tape Time:	3 - 4 hours at 70°F (21°C)

**Air Dry:**

Standard Mix:	12 - 16 hours at 70°F (21°C)
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Lock Down Clear:

3 - 4 hours at 70°F (21°C)

**Force Dry:**

Purge:	None
Standard Mix:	30 minutes at 140°F (60°C)

Lock Down Clear:

At normal film builds of 2 to 3 coats:
20 minutes at 120°F (49°C)
For heavier films of 4 coats or more:
Baking is not advisable

**IR (Infrared):**

Medium Wave:	5 minutes half bake, 9 minutes full
Short Wave:	5 minutes

**Polishing:**

Air Dry:	12 - 16 hours at 70°F (21°C)
Force Dry:	After cool down

**Repair and Recoat:**

Recoat: Recoat after force dry and cool down or 12 - 16 hours air dry for standard mix or 3 - 4 hours for lock down clear.

VC5700 must be sanded before recoating with primer, color or clear.

Repair: Repair after force dry and cool down or 12 - 16 hours air dry.



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.

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Technical Data:				
RTS Combinations	VC5700 : VH7780 / VH7795 : DT15xx	VC5700 : VH7780 : DT15xx + EA157	VC5700 : VH7780 / VH7795 : DT15xx / D87x + SLV889	VC5700 : VH7780 / VH7795 : DT15xx / D87x + DX814
Volume Ratio	2 : 1 : 1	2 : 1 : 1 +1%	2 : 1 : 1 +5%	2 : 1 : 1 +5%
Coating Category:	Multi-Stage Clearcoat	Multi-Stage Clearcoat	Multi-Stage Clearcoat	Specialty (Clearcoat Flexed)
VOC Actual (g/L)	352 - 357	349 - 353	376 - 381	364 - 369
VOC Actual (lbs./ Us Gal.)	2.94 - 2.98	2.91 - 2.95	3.14 - 3.18	3.04 - 3.08
VOC Regulatory (less water less exempt) (g/L)	422 - 430	422 - 430	446 - 454	433 - 441
VOC Regulatory (Less water less exempt) (lbs./ US Gal)	3.52 - 3.59	3.52 - 3.59	3.72 - 3.79	3.61 - 3.68
RTS % Solids by Volume	41.7 - 42.1	41.3 - 41.7	39.7 - 40.1	41.1 - 41.5
RTS % Solids by Weight	45.0 - 45.7	44.4 - 45.1	43.2 - 43.9	44.5 - 45.2
Sq. Ft. Coverage, 100% transfer efficiency at 1 mil	689 - 675	662 - 669	637 - 643	659 - 666

Equipment Cleaning:

Spray guns, gun cups, storage pots, etc. should be cleaned thoroughly after each use with any approved PPG general purpose solvent.

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.

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