valspar
REFINISH

999VP50
CPS Epoxy Primer Base

GENERAL INFORMATION

Neutral-colored, extreme-demand epoxy primer base. Formulated for harsh Fleet/OE environments. Mixed as a surfacer, 999VP50 provides excellent adhesion, durability, and water/corrosion resistance. Mixed as a sealer, 999VP50 provides excellent final color uniformity. Multiple activators allow precise application control. Must be used with five (5) CPS Toners to create a large range of Colored Primers.

1. COMPONENTS

• 999VP50	CPS Epoxy Primer Base
• CPS1-5	CPS Hi Opacity Tints
• VPC50	Epoxy Primer Activator Medium
• VPC5X	Epoxy Primer Activator Fast
• 171	Reducer Fast
• 172	Reducer Medium
• 173	Reducer Slow
• 174	Reducer Very Slow
• LVBF100	Reducer Fast Low VOC
• LVBM100	Reducer Medium Low VOC
• LVBS100	Reducer Slow Low VOC
• X01	Reducer Fast Low VOC
• X02	Reducer Medium Low VOC
• 171HP	Reducer High Performance Fast
• 172HP	Reducer High Performance Medium
• 173HP	Reducer High Performance Slow
• 174HP	Reducer High Performance Very Slow

2. MIXING RATIO

For proper mixing, the CPS Toners MUST be used:

• Mix three (3) parts 999VP50 to one (1) part CPS 1-5 to create desired color then activate and reduce for desired application

AS PRIMER SURFACER- 4:1:1 (by volume)

• Mix four (4) parts 999VP50 mixed color to one (1) part VPC50 or VPC5X activator and reduce with one (1) part solvents or reducers listed above

USA VOC compliant rules:

• For VOC 4.8 compliant use 170 or 170HP Series Reducers
• For VOC 2.8 compliant use Low VOC Reducers: X01, X02 or LVB100 Series Reducers

AS PRIMER SEALER- 4:1:2 (by volume)

• Mix four (4) parts 999VP50 mixed color to one (1) part VPC50 or VPC5X activator and reduce with two (2) parts solvents or reducers listed above

USA/Canada VOC compliant rules:

• For VOC 4.6 compliant use 170 or 170HP Series Reducers
• For VOC 2.8 compliant use Low VOC Reducers: X01, X02 or LVB100 Series Reducers

3. POT LIFE @ 77°F (25°C)

• 90 minutes

4. CLEAN UP

• Use Valspar Refinish Reducers listed above (check local regulations)

5. ADDITIVES

• N/A

6. SURFACE PREPARATION

• Wash surface with mild detergent and water
• Rinse and dry surface
• Wipe surface with 155 Surface Cleaner (steel) or 170 Aqua Clean (steel/ aluminum) and wipe dry with clean cloth before product flashes
• Sand and featheredge substrate with P220 (Primer Surfacer) or P320 (Primer Sealer) grit sandpaper or wet equivalent
• Clean surface with 155 Surface Cleaner or 170 Aqua Clean and wipe dry with clean cloth before product flashes

7. TOPCOATS

• N/A

8. TECH NOTES

• N/A

9. SUBSTRATES

• Properly cleaned and sanded aluminum, steel, galvanized steel or sand blasted steel
• Properly cleaned and sanded fiberglass and SMC
• Properly cleaned and sanded OEM finishes

NOTE: **Do Not Apply Over Self Etching Primers**

10. APPLICATION

• Spray one (1) to two (2) medium wet coats allowing 15-20 minutes between coats

NOTE: Do not spray when surface temperature is below 50°F (10°C)

11. FLASH / DRY TIMES

AIR DRY @ 77°F (25°C)

Flash Time	15-20 Minutes
To Sand	3-4 Hours
To Topcoat w/VPC50 Activator	2 Hours
To Topcoat w/VPC5X Activator	30 Minutes
To Topcoat without sanding	24 Hours (max.)

FORCE DRY @ 140°F (60°C)

To Topcoat with VPC50	30 Minutes
To Sand after cool down	60 Minutes

12. INFRARED CURE

• **See Infrared Curing Information**

13. GUN SET UP

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13. GUN SET UP

CONVENTIONAL GUN	
Gravity Feed	1.6 mm - 1.8 mm
Siphon Feed	1.6 mm - 2.0 mm
HVLP	
Gravity Feed	1.3 mm - 1.8 mm

AIR PRESSURES

Conventional @ Gun	
Gravity Feed	30-40 psi (2.0-2.8 bar)
Siphon Feed	35-45 psi (2.5-3.1 bar)
HVLP Inlet Air	20-30 psi (1.5-2.0 bar)
See spray gun manufacturer info	

14. PHYSICAL DATA

FOR USA (4.8/2.8 LBS./GAL Compliance)

RTS REGULATORY DATA	4:1:1 (170 or 170HP Series Reducers)		4:1:1 (X01, X02 or LVB100 Series Reducers)	
	LBS./ GAL.	g/L	LBS./ GAL.	g/L
Actual VOC	4.6 Max.	550 Max.	2.1 Max.	255 Max.
Regulatory VOC (less water and exempt solvents)	4.8 Max.	580 Max.	2.8 Max.	340 Max.
Density	10 - 12	1200 - 1440	10 - 12	1200 - 1440
	WT.%	VOL.%	WT.%	VOL. %
Total Solids Content	55 - 65	35 - 45	55 - 60	40 - 50
Total Volatile Content	35 - 45	55 - 65	40 - 45	50 - 60
Water	0	0	0	0
Exempt Compound Content	5 - 15	5 - 15	20 - 30	25 - 35
Coating Category	Primer Surfacer			

NOTE: US Regulations allow for the use of exempt compounds for VOC calculations.

14. PHYSICAL DATA (Continued)

FOR USA/Canada (4.6/2.8 LBS./GAL Compliance)

RTS REGULATORY DATA	4:1:2 (170 or 170HP Series Reducers		4:1:2 (X01, X02 or LVB100 Series Reducers)	
	LBS./ GAL.	g/L	LBS./ GAL.	g/L
Actual VOC	4.4 Max.	525 Max.	1.8 Max.	221 Max.
Regulatory VOC (less water and exempt solvents)	4.6 Max.	550 Max.	2.8 Max.	340 Max.
Density	10 - 12	1200 - 1440	10 - 12	1200 - 1440
	WT.%	VOL.%	WT.%	VOL. %
Total Solids Content	50 - 60	30 - 40	45 - 55	30 - 40
Total Volatile Content	40 - 50	60 - 70	45 - 55	60 - 70
Water	0	0	0	0
Exempt Compound Content	5 - 15	5 - 15	30 - 40	35 - 45
Coating Category	Primer Sealer			

NOTE: US/Canadian Regulations allow for the use of exempt compounds for VOC calculations.

FOR REST-OF-WORLD (outside US and Canada):

RTS REGULATORY DATA	4:1:1 (170 or 170HP Series Reducers)		4:1:2 (170 or 170HP Series Reducers)	
	LBS./ GAL.	g/L	LBS./ GAL.	g/L
VOC	4.8 Max.	580 Max.	5.5 Max.	660 Max.
Density	10 - 12	1200 - 1440	10 - 12	1200 - 1440
	WT.%	VOL.%	WT.%	VOL. %
Total Solids Content	55 - 65	35 - 45	50 - 60	30 - 40
Total Volatile Content	35 - 45	55 - 65	40 - 50	60 - 70
Water	0	0	0	0
Coating Category	Primer Surfacer		Primer Sealer	

NOTES

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