valspar
REFINISH

999DTM
CPS DTM Primer Base Neutral

GENERAL INFORMATION

999DTM is a neutral-color Direct to Metal primer base formulated with a hybrid of epoxy and acrylic polymers, providing excellent adhesion, good corrosion resistance, productive dry times, and ease of sanding. 999DTM primer emits very low amounts of Volatile Organic Compounds (VOCs), Hazardous Air Polluting Solvents (HAPS) and contains no isocyanates.

1. COMPONENTS

• 999DTM	CPS DTM Primer Base Neutral
• CPS 1-5	CPS Hi Opacity Tints
• DTMA	DTM Activator
• LVBF100	Reducer Fast Low VOC
• LVBM100	Reducer Medium Low VOC
• LVBS100	Reducer Slow Low VOC
• 171	Reducer Fast
• 172	Reducer Medium
• 173	Reducer Slow
• 174	Reducer Very Slow
• 171HP	Reducer High Performance Fast
• 172HP	Reducer High Performance Medium
• 173HP	Reducer High Performance Slow
• 174HP	Reducer High Performance Very Slow
• X01	Reducer Fast Low VOC
• X02	Reducer Medium Low VOC

2. MIXING RATIO

• Mix three (3) parts 999DTM 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 999DTM mixed color to one (1) part DTMA activator and reduce with one (1) part solvents or reducers listed above

USA/Canada VOC compliant rules:

• For VOC 3.5 compliant use 170 or 170HP Series Reducers
• For VOC 2.1 compliant use Low VOC Reducers: X01, X02 or LVB100 Series Reducers

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

• Mix four (4) parts 999DTM mixed color to one (1) part DTMA 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 2.1 compliant use Low VOC Reducers: X01, X02 or LVB100 Series Reducers

3. POT LIFE @ 77°F (25°C)

• 2-3 Hours

4. CLEAN UP

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

5. ADDITIVES

• ACCELERATOR: DO NOT USE
• FISHEYE: N/A
• FLEX ADDITIVE: Not Required

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

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 P320 grit sandpaper and/or body fillers P180 or 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, SMC, E-Coat and OEM Finish
• Properly prepared OEM E-Coat

10. APPLICATION

AS PRIMER SURFACER:

• Spray one (1) to three (3) medium wet coats

AS PRIMER SEALER:

• Spray one (1) to two (2) medium wet coats
• Allow primer sealer to flash dull between coats

11. FLASH / DRY TIMES

AIR DRY @ 77°F (25°C)	AS PRIMER SURFACER	AS PRIMER SEALER
Flash Time	10-15 Minutes	5-10 Minutes
To Sand	60-90 Minutes	Nib Sand 20 Minutes
To Topcoat	30 Minutes*	20-30 Minutes*
*To Topcoat without sanding	N/A	8 Hours Maximum

*Reduction may accelerate flash times

12. INFRARED CURE

• N/A

13. GUN SET UP

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13. GUN SET UP (continued)

CONVENTIONAL GUN	
Gravity Feed	1.6 mm - 2.0 mm
Siphon Feed	1.8 mm - 2.0 mm
HVLP	
Gravity Feed	1.4 mm - 1.8 mm

AIR PRESSURES

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

14. PHYSICAL DATA

FOR USA/Canada (3.5/2.1 LBS./GAL Compliance)

RTS REGULATORY DATA	4:1:1 (170 or 170HP Series Reducers)		4:1:1 (X01, X02 and LVB100 Series Reducers	
	LBS./ GAL.	g/L	LBS./ GAL.	g/L
Actual VOC	2.8 Max.	340 Max.	1.25 Max.	150 Max.
Regulatory VOC (less water and exempt solvents)	3.5 Max.	420 Max.	2.1 Max.	250 Max.
Density	10 - 12	1200 - 1440	10 - 12	1200 - 1440
	WT.%	VOL.%	WT.%	VOL. %
Total Solids Content	50 - 60	35 - 45	45 - 55	35 - 45
Total Volatile Content	40 - 50	55 - 65	45 - 55	55 - 65
Water	0	0	0	0
Exempt Compound Content	20 - 30	20 - 30	20 - 30	25 - 35
Coating Category	Primer Surfacer			

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

14. PHYSICAL DATA (Continued)

FOR USA/Canada (4.6/2.1 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.	1.1 Max.	140 Max.
Regulatory VOC (less water and exempt solvents)	4.6 Max.	550 Max.	2.1 Max.	250 Max.
Density	10 - 12	1200 - 1440	10 - 12	1200 - 1440
	WT.%	VOL.%	WT.%	VOL. %
Total Solids Content	40 - 50	30 - 40	40 - 50	30 - 40
Total Volatile Content	50 - 60	60 - 70	50 - 60	60 - 70
Water	0	0	0	0
Exempt Compound Content	15 - 25	15 - 25	40 - 50	45 - 55
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	5.6 Max.	680 Max.	6.3 Max.	760 Max.
Density	10 - 12	1200 - 1440	10 - 12	1200 - 1440
	WT.%	VOL.%	WT.%	VOL. %
Total Solids Content	50 - 60	35 - 45	40 - 50	30 - 40
Total Volatile Content	40 - 50	55 - 65	50 - 60	60 - 70
Water	0	0	0	0
Coating Category	Primer Surfacer		Primer Sealer	

NOTES