

Spies Hecker® VOC Compliance Chart

State of Massachusetts

Regulation 310, Chapter 7, Section 18(28) - Air Pollution Control/Automobile Refinishing

Effective: 8/1/1995



Description		Compliant Rules			Applied VOC (lbs/gal)	Remarks
Surface Preparation VOC Limit = 1.7 lbs/gal (204 g/L)						
		Massachusetts			0.2	
					1.4	
					0.2	
					0.1	
Description	Mix Ratio	Hardener	Reducer/Additive	Admix Product	Max Applied VOC (LE) lbs/gal	Remarks
Pre-treatment VOC Limit = 6.6 lbs/gal (780 g/L)						
Promat® Primer 3255	+40%	N/A	8580, 3363, 3365	N/A	6.6	
Promat® Primer 3255 (Aerosol)	Ready to Use	N/A	N/A	N/A	N/A	
Promat® Wash Primer 4075	1:1	4076	N/A	N/A	6.5	
1420™ Acids Etch Primer	1:1	421	N/A	N/A	6.5	
1420™ Acids Etch Primer Surface Light Gray	Ready to Use	N/A	N/A	N/A	N/A	
1420™ Acids Etch Primer Surface Dark Gray	Ready to Use	N/A	N/A	N/A	N/A	
1420™ Acids Metal Preparation Wipes	Ready to Use	N/A	N/A	N/A	6.5	
Promat® 1K Primer Surface 4085 (Aerosol)	Ready to Use	N/A	N/A	N/A	N/A	
Promat® 1K Primer Surface 4085	+40%	N/A	8580, 3363, 3365	N/A	6.5	
Acidal® Pre-treatment Wipes P54000™	Ready to Use	N/A	N/A	N/A	6.5	
Primer+Primer Surfaces VOC Limit = 4.8 lbs/gal (580 g/L)						
Pernamyl® 1K Protective Primer Surface 4100	+5-10%	N/A	8500	N/A	4.8	
Pernamyl® EP Primer Surface 4500	3:1 to 25-30%	4501	3363, 3365	N/A	4.8	
Pernamyl® EP Primer Surface 4502	2:1 to 10-10%	4503	3364	N/A	4.8	
1404A™ Acids Etch Primer 2K	Ready to Use	Not listed	N/A	N/A	4.8	
Pernamyl® VHS Surface 5150	2:1 S + 5-10%	3220, 3230, 3240, 3245	8580, 3363, 3365, 8408	N/A	4.8	
Pernamyl® 2:1 Surface 5157	4:1 + 5-10%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365, 8408, 8409, 8410	N/A	4.8	
Pernamyl® 2:1 Surface 5157 Elastized	4:1 +10-20%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365, 8408, 8409, 8410	+20% 9050	4.8	9050 must be added before hardener.
Pernamyl® HS Premium Surface 5310	4:1 to 10%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	N/A	4.8	
Pernamyl® HS Premium Surface 5310	7:1 to 5-20%	3220, 3230, 3240, 3245	8580, 3363, 3365	N/A	4.8	
Pernamyl® Spectro Surface 5400	4:1 to 10-15%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	N/A	4.8	
Pernamyl® Spectro Surface 5400 Elastized	2:1 to 15-15%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	+30% 9050	4.8	9050 must be added before hardener.
Pernamyl® Spectro Surface 5400	7:1 to 7-20%	3220, 3230, 3240, 3245	8580, 3363, 3365	N/A	4.8	
Pernamyl® Spectro Surface 5400 Elastized	3:1 to 20%	3220, 3230, 3240, 3245	8580, 3363, 3365	+30% 9050	4.8	9050 must be added before hardener.
Pernamyl® Spectro Sealer 5450	3:1 to 20-25%	3307, 3309, 3310, 3315, 3320	8408	N/A	4.8	
Pernamyl® Spectro Sealer 5450 Elastized	2:1 to 20-25%	3307, 3309, 3310, 3315, 3320	8408	15-30% 9050	4.8	9050 must be added before hardener.
Pernamyl® Spectro Sealer 5450	5:1 to 20-30%	3220, 3230, 3240, 3245	8408	N/A	4.8	
Pernamyl® Spectro Sealer 5450 Elastized	4:1 to 20-30%	3220, 3230, 3240, 3245	8408	15-30% 9050	4.8	9050 must be added before hardener.
Pernamyl® Vario Surface 8500	3:1 to 14-10%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	N/A	4.8	
Pernamyl® Vario Surface 8500 Elastized	3:1 to 14-10%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	+30% 9050	4.8	9050 must be added before hardener.
Pernamyl® Vario Surface 8500	5:1 to 10-20%	3220, 3230, 3240, 3245	8580, 3363, 3365	+30% 9050	4.8	9050 must be added before hardener.
Pernamyl® 1K UV Starlight Primer Surface 9002 (Aerosol)	Ready to Use	N/A	N/A	N/A	N/A	Aerosol
Pernamyl® 1K UV Starlight Primer Surface 9002	Ready to Use	N/A	N/A	N/A	4.8	Non-Aerosol version
Primer+Sealers VOC Limit = 4.6 lbs/gal (560 g/L)						
Pernamyl® Spectro Surface 5400	2:1 to 40-60%	3307, 3309, 3310, 3315, 3320, 3325	8407	N/A	4.6	
Pernamyl® Spectro Surface 5400 wPernamyl® Reducer	2:1 to 20-25%	3307, 3309, 3310, 3315, 3320, 3325	8407	+0-5% 8580, 3363, 3365	4.6	
Pernamyl® Spectro Surface 5400 Elastized	2:1 to 20-30%	3307, 3309, 3310, 3315, 3320, 3325	8407	+10% 9050	4.6	9050 must be added before hardener.
Pernamyl® Spectro Surface 5400 Elastized wPernamyl® Reducer	2:1	3307, 3309, 3310, 3315, 3320, 3325	+0-5% 8580, 3363, 3365	+10% 9050	4.6	
Pernamyl® Spectro Surface 5400	3:1 to 40-60%	3220, 3230, 3240, 3245	8407	N/A	4.6	
Pernamyl® Spectro Surface 5400 wPernamyl® Reducer	3:1 to 40-60%	3220, 3230, 3240, 3245	8407	+0-5% 8580, 3363, 3365	4.6	
Pernamyl® Spectro Surface 5400 Elastized	3:1 to 40-60%	3220, 3230, 3240, 3245	8407	+10% 9050	4.6	9050 must be added before hardener.
Pernamyl® Spectro Surface 5400 Elastized wPernamyl® Reducer	3:1	3220, 3230, 3240, 3245	+0-5% 8580, 3363, 3365	+10% 9050	4.6	
Pernamyl® Spectro Sealer 5450	2:1 to 20-25%	3307, 3309, 3310, 3315, 3320	8409, 8410	15-30% 9050	4.6	
Pernamyl® Spectro Sealer 5450 Elastized	2:1 to 20-25%	3307, 3309, 3310, 3315, 3320	8409, 8410	15-30% 9050	4.6	9050 must be added before hardener.
Pernamyl® Spectro Sealer 5450	5:1 to 20-30%	3220, 3230, 3240, 3245	8409, 8410	N/A	4.6	
Pernamyl® Spectro Sealer 5450 Elastized	4:1 to 20-30%	3220, 3230, 3240, 3245	8409, 8410	15-30% 9050	4.6	
Pernamyl® 2K Sealer 5650	1:1 to 10%	3080	N/A	N/A	4.6	
Pernamyl® Vario Surface 8500 Elastized	3:1 to 20%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	10% 9050	4.6	9050 must be added before hardener.
Pernamyl® Vario Surface 8500	5:1 to 10-20%	3220, 3230, 3240, 3245	8580, 3363, 3365	10% 9050	4.6	9050 must be added before hardener.
Single Stage Topcoats VOC Limit = 6.0 lbs/gal (696 g/L)						
Pernamyl® Acrylic Urethane Series 257	3:1 to 5-10%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	N/A	6.0	
Pernamyl® Automotive Topcoat Series 257 PP-1004 Rally Matt Black	4:1 to 20%	3220, 3230, 3240, 3245	8580, 3363, 3365	+15% 9050	5.0	
Pernamyl® Automotive Topcoat Series 257 PP-1004 Rally Blue Black	4:1 to 20%	3220, 3230, 3240, 3245	8580, 3363, 3365	+15% 9050	5.0	
Pernamyl® Automotive Top Coat PP 1005 Warm Gray V60/AN	3:1	3307, 3309, 3310, 3315, 3320, 3325	+0-5% 8050, 8056	6.0		
Pernamyl® Automotive Top Coat PP 1005 Warm Gray V60/AN	4:1 to 10%	3220, 3230, 3240, 3245	8580, 3363, 3365, 8394, 8400, 8410	+0-5% 8050, 8056	5.0	
2-stage Topcoat VOC Limit = 6.6 lbs/gal (800 g/L) applied as a system						
3-stage Topcoat VOC Limit = 6.2 lbs/gal (753 g/L) applied as a system						
Basecoats: Must be used with specific clearcoats for compliance						
Pernamyl® HS-TEC Base Coat	+10-30%	N/A	6050, 6051, 6052, 6053	N/A	5.0	
Pernamyl® HS-TEC Base Coat of Hardeners	+5-10% to 10-30%	3080	6050, 6051, 6052, 6053	N/A	5.0	
Pernamyl® Base Coat Series 280/285	+0-15%	N/A	6000	N/A	5.0	
Pernamyl® Base Coat Series 280/285	+0-10%	N/A	6002	N/A	5.0	
Pernamyl® Base Coat Series 280/285	+5-10%	9007	+10-20% 6000 or 0-10% 6002	N/A	5.0	
Pernamyl® Base Coat Series 293/295	+40-50%	N/A	3054, 3055, 3056	N/A	5.0	
Pernamyl® PP2003	+15% to 40-50%	3307, 3309, 3310, 3315, 3320, 3325	3054, 3055, 3056	N/A	5.0	
Pernamyl® PP2003	+10% to 45%	3220, 3230, 3240, 3245	3054, 3055, 3056	N/A	5.0	
Pernamyl® Base Coat Series 293/295 - GMW 15406	+10% to 40-50%	3307, 3309, 3310, 3315, 3320, 3325	3054, 3055, 3056	N/A	5.0	
Pernamyl® Base Coat Series 293/295 - GMW 15406	+10% to 40-50%	3220, 3230, 3240, 3245	3054, 3055, 3056	N/A	5.0	
Pernamyl® Base Coat Series 293/295 - High Temp/Humidity	+30% to 15%	N/A	3056	9010	5.0	
Pernamyl® 2K Diamond Midcoat MC 0001	See 996.0 TDS for Mixing Recommendations	3307, 3309, 3310, 3315, 3320, 3325 or 3220, 3230, 3240, 3245	8580, 3363, 3365	+15% 9050	5.0	
Pernamyl® 2K Transparent Red Midcoat MC 0002	See 996.0 TDS for Mixing Recommendations	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	+15% 9050	5.0	
Pernamyl® 2K Transparent Blue Midcoat MC 0003	See 996.0 TDS for Mixing Recommendations	3307, 3309, 3310, 3315, 3320, 3325 or 3220, 3230, 3240, 3245	8580, 3363, 3365	+15% 9050	5.0	
Pernamyl® Transparent Midcoat 9100	1:1 to 2%	3240, 3241	3363, 3365	N/A	5.0	Refer to TDS for mixing instructions
Clearcoats: Must be used as a system with basecoats at 100 g/L 0.1-2-stage or 6.2 lbs/gal (820 g/L) 3-stage for compliance						
Spies Hecker® HS Speed Clear Coat 8500	2:1	3251, 3254, 3259, 3262, 3267	N/A	N/A	5.0	Compliant when used with both 2 & 3-stage coating systems.
Pernamyl® HS Clear Coat 8005	2:1 to 5-10%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365, 9025	N/A	5.0	Compliant when used in a 2-stage coating system.
Pernamyl® HS Clear Coat 8005 Elastized	2:1 to 10-10%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365, 9025	+15-30% 9050	5.0	Compliant when used in a 2-stage coating system. 9050 must be added before hardener.
Pernamyl® HS Clear Coat 8005	3:1 to 15-20%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	N/A	5.0	Compliant when used with both 2 & 3-stage coating systems.
Pernamyl® HS Clear Coat 8005 Elastized	3:1 to 15-20%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	+15-30% 9050	5.0	Compliant when used with both 2 & 3-stage coating systems. 9050 must be added before hardener.
Pernamyl® MS Express Clear Coat 8046	2:1 to 5-5%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365, 9025	N/A	5.0	Compliant when used in a 2-stage coating system.
Pernamyl® MS Express Clear Coat 8046 Elastized	2:1 to 5-5%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365, 9025	+15-30% 9050	5.0	Compliant when used in a 2-stage coating system. 9050 must be added before hardener.
Pernamyl® MS Express Clear Coat 8046	3:1 to 10%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	N/A	5.0	Compliant when used in a 2-stage coating system.
Pernamyl® MS Express Clear Coat 8046 Elastized	3:1 to 10%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	+15-30% 9050	5.0	Compliant when used in a 2-stage coating system. 9050 must be added before hardener.
Pernamyl® Low VOC Clear Coat 8086	2:2 to 2%	3307, 3309, 3310, 3315, 3320	3363, 3365, 8580	N/A	5.0	Compliant when used with both 2 & 3-stage coating systems.
Pernamyl® Low VOC Clear Coat 8086	2.5:1 to 20%	3220, 3230, 3240, 3245	3363, 3365, 8580	N/A	5.0	Compliant when used with both 2 & 3-stage coating systems.
Pernamyl® Low VOC Clear Coat 8086 Elastized	3:2 to 5-15%	3307, 3309, 3310, 3315, 3320, 3325	3363, 3365, 8580	+15-30% 9050	5.0	Compliant when used with both 2 & 3-stage coating systems. 9050 must be added before hardener.
Pernamyl® Low VOC Clear Coat 8086 Elastized	2.5:1 to 20-25%	3220, 3230, 3240, 3245	3363, 3365, 8580	+15-30% 9050	5.0	Compliant when used with both 2 & 3-stage coating systems. 9050 must be added before hardener.
Pernamyl® MS Clear Coat 8180	2:1	3307, 3309, 3310, 3315, 3320	N/A	N/A	5.0	Compliant when used in a 2-stage coating system.
Pernamyl® MS Clear Coat 8180 Elastized	2:1	3307, 3309, 3310, 3315, 3320	N/A	+15-30% 9050	5.0	Compliant when used in a 2-stage coating system. 9050 must be added before hardener.
Pernamyl® MS Clear Coat 8180	3:1 to 10%	3220, 3230, 3240, 3245	8580, 3363, 3365	N/A	5.0	Compliant when used in a 2-stage coating system.
Pernamyl® MS Clear Coat 8180 Elastized	3:1 to 10%	3220, 3230, 3240, 3245	8580, 3363, 3365	+15-30% 9050	5.0	Compliant when used in a 2-stage coating system. 9050 must be added before hardener.
Pernamyl® HS Diamond Clear Coat 8400	3:1 to 5-5%	3240	8580, 3363, 3365	N/A	5.2	Compliant when used with both 2 & 3-stage coating systems.
Pernamyl® HS Diamond Clear Coat 8400 - ASAP	2:1 to 5-5%	3240	8580, 3363, 3365	+10% 9050	5.2	Compliant when used with both 2 & 3-stage coating systems. 9050 must be added before hardener.
Pernamyl® HS Optimum Clear Coat 8600	3:1	3251, 3254, 3259, 3262, 3267	N/A	N/A	5.0	Only compliant if used in a 2-stage coating system with 293/295 basecoat or with a 2 or 3-stage coating system and Pernamyl® HS-TEC Basecoat.
Pernamyl® HS Optimum Clear Coat 8600 Elastized	3:1 to 5-5%	3251, 3254, 3259, 3262, 3267	8580, 3363, 3365, 9025	+15-30% 9050	5.2	Compliant when used with both 2 & 3-stage coating systems.
Pernamyl® HS Optimum Clear Coat 8600	3:1 to 5-5%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	N/A	5.0	Only compliant if used in a 2-stage coating system with 293/295 basecoat or with a 2 or 3-stage coating system and Pernamyl® HS-TEC Basecoat.
Pernamyl® HS Optimum Clear Coat 8600 Elastized	3:1 to 5-5%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	+15-30% 9050	5.2	Compliant when used with both 2 & 3-stage coating systems.
Pernamyl® Matte Clear Coat Additive 8092 with 8035		See TDS 8080 for Mixing Recommendations			5.0	Refer to TDS for mixing instructions over both metal and plastic.
Specialty Coatings VOC Limit = 7.0 lbs/gal (840 g/L)						
Adhesion Promoters						
Pernamyl® Transparent Surface 8550	3:1 to 20-30%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	N/A	7.0	
Pernamyl® Transparent Surface 8550	4:1 to 30%	3220, 3230, 3240, 3245	8580, 3363, 3365	N/A	7.0	
Pernamyl® Vario Surface 8500	3:1 to 20-30%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	N/A	7.0	
Pernamyl® Vario Surface 8500	5:1 to 40-60%	3220, 3230, 3240, 3245	8580, 3363, 3365	N/A	7.0	
Elastomeric Coatings						
Pernamyl® 1:1 Elastic Primer Surface 3300	1:1	3301	N/A	N/A	7.0	
Promat® Elastic Primer 3304	Ready to Use	N/A	N/A	N/A	7.0	
Promat® Elastic Primer 3304 (Aerosol)	Ready to Use	N/A	N/A	N/A	N/A	
Promat® Elastic Primer 4190	Ready to Use	N/A	N/A	N/A	7.0	
100™ Acids Plastic Polyurethane Adhesion Promoter	Ready to Use	N/A	N/A	N/A	N/A	
305™ Acids Plastic Polyurethane Adhesion Promoter	Ready to					