

Spies Hecker® VOC Compliance Chart



US National Rule for Automotive Refinishing - Effective 01/11/1999 - FOR CALIFORNIA NATIONAL RULE AREA USAGE

Description	Mix Ratio	Hardener	Reducer/ Additive	Addl Product	Applied VOC lbs/gal	Remarks	
Surface Preparation							
100% Acrylic Low VOC Top Coat & Equipment Cleaner					0.2		
200% Acrylic Silicone Remover Base					6.4		
200% Acrylic Silicone Remover (Aerosol)					N/A		
210% Acrylic Silicone Remover Wipe					1.3		
220% Acrylic Silicone Remover Low VOC					6.2		
220% Acrylic Base & Top Sealant					0.2		
275% Acrylic Plastic Cleaner Solvent					7.2		
100% Acrylic Base & Top Remover					2.9		
100% Acrylic Cleaner					0		
Permaseal® Silicone Remover 7010 Slow					6.2		
Permaseal® Plastic Cleaner Paste 7081					0.1		
Permaseal® Silicone Remover 7085					1.5		
Permaseal® Silicone Remover 7206					1.4		
Permaseal® Silicone Remover 7387 (Aerosol)					N/A		
305% Acrylic Plastic Cleaning Paste					0.1		
Permaseal® Silicone Remover 7206					0.2		
Permaseal® Plastic Reducer 8581					7.1		
No Surface Preparation limits are set forth in the National Rule. Check local Surface Preparation regulations for limits.							
Pre-treatment VOC Limit = 6.5 lbs/gal (780 g/L)							
Permaseal® Primer 3255	+50%	N/A		8580, 3363, 3365	6.5		
Permaseal® Primer 3255 (Aerosol)	Ready to Use	N/A		N/A	N/A		
424™ Acrylic Base Primer Low VOC	2:1	426		N/A	6.4		
Elmoh® High Primer 4275	1:1	426		N/A	6.5		
420™ Acrylic Etn Primer	1:1	421		N/A	6.5		
Permaseal® 1K Primer Surface 4585	+20%	N/A		8580, 3363, 3365	6.5		
Permaseal® 1K Primer Surface 4585 (Aerosol)	Ready to Use	N/A		N/A	N/A		
410A™ Acrylic 1K Primer Surface Low VOC	Aerosol	N/A		N/A	N/A		
403A™ Acrylic 1K Primer Surface Dark Gray	Aerosol	N/A		N/A	N/A		
405™ Acrylic Metal Pre-treatment Wipes	Ready to Use	N/A		N/A	6.5		
Asabell® Pre-treatment Wipes P5400™	Ready to Use	N/A		N/A	6.5		
Primer/Primer-Surfaces VOC Limit = 4.8 lbs/gal (580 g/L)							
Permaseal® 1K Automotive Primer Surface 4100	4:1-10%	N/A		8000	4.8		
Permaseal® EP Primer Surface 4500	3:1+25-30%	4501		3363, 3365	4.8		
Permaseal® EP Primer Surface 4502	2:1+10-10%	4503		3394	4.8		
100% Acrylic Sealer 2K	Ready to Use	Sealed		N/A	N/A		
Permaseal® HS Premium Surface 5310	4:1+10%	3307, 3309, 3310, 3315, 3320, 3325		8580, 3363, 3365	4.8		
Permaseal® HS Premium Surface 5310	7:1+10-20%	3220, 3230, 3240, 3245		8580, 3363, 3365	4.8		
Permaseal® 2.1 HS Surface 5150	2:1+1+1+10%	3307, 3309, 3310, 3315, 3320, 3325		8580, 3363, 3365, 5408, 5409, 5410	4.8		
Permaseal® 2.1 Surface 5157	4:1+10%	3307, 3309, 3310, 3315, 3320, 3325		8580, 3363, 3365, 5408, 5409, 5410	4.8		
Permaseal® Spectro Surface 5400	4:1+10-20%	3307, 3309, 3310, 3315, 3320, 3325		8580, 3363, 3365	4.8	9050 must be added before hardener	
Permaseal® Spectro Surface 5400 Elastized	4:1+10-15%	3307, 3309, 3310, 3315, 3320, 3325		8580, 3363, 3365	4.8	9050 must be added before hardener	
Permaseal® Spectro Surface 5400 Elastized	3:1+25%	3220, 3230, 3240, 3245		8580, 3363, 3365	4.8	9050 must be added before hardener	
Permaseal® Spectro Surface 5400 Elastized	3:1+25%	3220, 3230, 3240, 3245		8580, 3363, 3365	4.8	9050 must be added before hardener	
Permaseal® Spectro Sealer 5450	3:1+20-25%	3307, 3309, 3310, 3315, 3320, 3325		5408	4.8	9050 must be added before hardener	
Permaseal® Spectro Sealer 5450 Elastized	3:1+20-25%	3307, 3309, 3310, 3315, 3320, 3325		5408	15-30% 9050	4.8	9050 must be added before hardener
Permaseal® Spectro Sealer 5450	6:1+25-30%	3220, 3230, 3240, 3245		5408	4.8	9050 must be added before hardener	
Permaseal® Spectro Sealer 5450 Elastized	4:1+25-30%	3220, 3230, 3240, 3245		5408	15-30% 9050	4.8	9050 must be added before hardener
Permaseal® Vano Surface 6000	3:1+15-10%	3307, 3309, 3310, 3315, 3320, 3325		8580, 3363, 3365	4.8		
Permaseal® Vano Surface 8550 Elastized	3:1+15-10%	3307, 3309, 3310, 3315, 3320, 3325		8580, 3363, 3365	4.8	9050 must be added before hardener	
Permaseal® Vano Surface 8550	6:1+10-20%	3220, 3230, 3240, 3245		8580, 3363, 3365	4.8	9050 must be added before hardener	
Permaseal® Vano Surface 8550 Elastized	6:1+10-20%	3220, 3230, 3240, 3245		8580, 3363, 3365	4.8	9050 must be added before hardener	
Permaseal® 1K UV Sealant Primer Surface 9002 (Aerosol)	Ready to Use	N/A		N/A	N/A	Aerosol	
Permaseal® 1K UV Sealant Primer Surface 9004	Ready to Use	N/A		N/A	4.8	Non-aqueous version	
Primer-Sealers VOC Limit = 4.8 lbs/gal (580 g/L)							
Permaseal® Spectro Surface 5400	2:1+20-30%	3307, 3309, 3310, 3315, 3320, 3325	5407	N/A	4.6		
Permaseal® Spectro Surface 5400 w/Permaseal Reducer	2:1+20-25%	3307, 3309, 3310, 3315, 3320, 3325	5407	+0.5% 8580, 3363, 3365	4.6		
Permaseal® Spectro Surface 5400 Elastized	2:1+20-30%	3307, 3309, 3310, 3315, 3320, 3325	5407	+20% 9050	4.6	9050 must be added before hardener	
Permaseal® Spectro Surface 5400 Elastized w/Permaseal Reducer	2:1	3307, 3309, 3310, 3315, 3320, 3325	5407	+20% 9050	4.6	9050 must be added before hardener	
Permaseal® Spectro Surface 5400	3:1+40-50%	3220, 3230, 3240, 3245	5407	+0.5% 8580, 3363, 3365	4.6		
Permaseal® Spectro Surface 5400 w/Permaseal Reducer	3:1+40-45%	3220, 3230, 3240, 3245	5407	+0.5% 8580, 3363, 3365	4.6		
Permaseal® Spectro Surface 5400 Elastized	3:1+40-50%	3220, 3230, 3240, 3245	5407	+20% 9050	4.6	9050 must be added before hardener	
Permaseal® Spectro Surface 5400 Elastized w/Permaseal Reducer	3:1	3220, 3230, 3240, 3245	5407	+0.5% 8580, 3363, 3365	4.6		
Permaseal® Spectro Sealer 5450	3:1+20-25%	3307, 3309, 3310, 3315, 3320, 3325	5408, 5410	+0.5% 9050	4.6		
Permaseal® Spectro Sealer 5450 Elastized	3:1+20-25%	3307, 3309, 3310, 3315, 3320, 3325	5408, 5410	+15-30% 9050	4.6	9050 must be added before hardener	
Permaseal® Spectro Sealer 5450	6:1+25-30%	3220, 3230, 3240, 3245	5408, 5410	N/A	4.6	9050 must be added before hardener	
Permaseal® Spectro Sealer 5450 Elastized	6:1+25-30%	3220, 3230, 3240, 3245	5408, 5410	15-30% 9050	4.6	9050 must be added before hardener	
Permaseal® 2K Sealer 5650	1:5%	3049		N/A	5		
Permaseal® Vano Surface 8550 Elastized	3:1+20%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	30% 9050	4.6	9050 must be added before hardener	
Permaseal® Vano Surface 8550	6:1+10-20%	3220, 3230, 3240, 3245	8580, 3363, 3365	30% 9050	4.6	9050 must be added before hardener	
Single Stage Topcoats VOC Limit = 5.0 lbs/gal (600 g/L)							
Permaseal® Acrylic Urethane Series 267	3:1+5-10%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	N/A	5.0		
Permaseal® Automotive Top Coat FPF 1000 Warm Gray VV684N	3:1	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	+0.5% 8092, 8096	5.0		
Permaseal® Automotive Topcoat Series 212 FPF 1000 Blue Black	4:1+20%	3220, 3230, 3240, 3245	8580, 3363, 3365	+15% 9050	5.0		
Permaseal® Automotive Topcoat 201 Series FPF 1000 Blue Black	4:1+20%	3220, 3230, 3240, 3245	8580, 3363, 3365	+15% 9050	5.0		
Permaseal® Automotive Top Coat FPF 1000 Warm Gray VV684N	4:1+10%	3220, 3230, 3240, 3245	8580, 3363, 3365, 3394, 5409, 5410	+0.5% 8092, 8096	5.0		
Single Stage Topcoat VOC Limit = 5.2 lbs/gal (630 g/L) applied as a system							
Basecoats: Must be used with specific clearcoats for compliance							
Permaseal® Hi-TEC Base Coat	+10-30%	N/A		6050, 6051, 6062, 6063	5.0		
Permaseal® Hi-TEC Base Coat w/Hardener	+5-10%+10-30%	3080		6050, 6051, 6062, 6063	5.0		
Permaseal® Base Coat Series 280285	+5-10%	N/A		6000	5.0		
Permaseal® Base Coat Series 280285	+5-10%	N/A		6002	5.0		
Permaseal® Base Coat Series 280285	+5-10%	9007		+10-20% 6000 or 0-10% 6002	5.0		
Permaseal® Base Coat Series 293295	+40-50%	N/A		3054, 3055, 3056	5.0		
Permaseal® FP2003	+15%+40-50%	3307, 3309, 3310, 3315, 3320, 3325	3055, 3054, 3056	N/A	5.0		
Permaseal® FP2003	+15%+45%	3220, 3230, 3240, 3245	3055, 3054, 3056	N/A	5.0		
Permaseal® Base Coat Series 293295 - GMW 15406	+15%+40-50%	3307, 3309, 3310, 3315, 3320, 3325	3054, 3055, 3056	N/A	5.0		
Permaseal® Base Coat Series 293295 - GMW 15406	+10%+40-50%	3220, 3230, 3240, 3245	3054, 3055, 3056	N/A	5.0		
Permaseal® Base Coat Series 293295 - Temp/Kinergy	+20%+15%	N/A	2064	N/A	5.0		
Permaseal® 2K Diamond Midcoat MC 0001	See 998.0 TDS for Mixing Recommendations	3307, 3309, 3310, 3315, 3320, 3325 or 3220, 3230, 3240, 3245	8580, 3363, 3365	+15% 9050	5.0		
Permaseal® 2K Transparent Red Midcoat MC 0002	See 998.0 TDS for Mixing Recommendations	3307, 3309, 3310, 3315, 3320, 3325 or 3220, 3230, 3240, 3245	8580, 3363, 3365	+15% 9050	5.0		
Permaseal® 2K Transparent Blue Midcoat MC 0003	See 998.0 TDS for Mixing Recommendations	3307, 3309, 3310, 3315, 3320, 3325 or 3220, 3230, 3240, 3245	8580, 3363, 3365	+15% 9050	5.0		
Permaseal® Transparent Midcoat 9100	1:1+3%	3240, 3245	3363, 3365	9045, 9049, 9056, 9067, 9068	5.0		
Clearcoats: Must be used as a system with basecoats at under 5.0 lbs/gal (600 g/L) 2-stage or 5.2 lbs/gal (630 g/L) 3-stage for compliance							
Permaseal® HS Clear Coat 8035	2:1+10-10%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365, 9025	+15-30% 9050	5.0	Only compliant when used in a 2-stage coating system	
Permaseal® HS Clear Coat 8035 Elastized	2:1+10-10%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	+15-30% 9050	5.0	9050 must be added before hardener	
Permaseal® HS Clear Coat 8035	3:1+15-20%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	N/A	5.0		
Permaseal® HS Clear Coat 8035 Elastized	3:1+15-20%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	+15-30% 9050	5.0	9050 must be added before hardener	
Permaseal® MS Express Clear Coat 8046	2:1+0-5%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365, 9025	N/A	5.0		
Permaseal® MS Express Clear Coat 8046 Elastized	2:1+0-5%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365, 9025	+15-30% 9050	5.0	9050 must be added before hardener	
Permaseal® MS Express Clear Coat 8046	3:1+10%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	N/A	5.0		
Permaseal® MS Express Clear Coat 8046 Elastized	3:1+10%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	+15-30% 9050	5.0	9050 must be added before hardener	
Permaseal® Low VOC Clear Coat 8056	2:5:1 +20-25%	3220, 3230, 3240, 3245	3363, 3365, 8580	N/A	5.0		
Permaseal® Low VOC Clear Coat 8056 Elastized	3:2+5-15%	3307, 3309, 3310, 3315, 3320, 3325	3363, 3365, 8580	+15-30% 9050	5.0	9050 must be added before hardener	
Permaseal® Low VOC Clear Coat 8056	2:5:1 +20-25%	3220, 3230, 3240, 3245	3363, 3365, 8580	N/A	5.0		
Permaseal® MS Clear Coat 8180	2:1	3307, 3309, 3310, 3315, 3320, 3325	N/A	+15-30% 9050	5.0	9050 must be added before hardener	
Permaseal® MS Clear Coat 8180 Elastized	2:1	3307, 3309, 3310, 3315, 3320, 3325	N/A	+15-30% 9050	5.0	9050 must be added before hardener	
Permaseal® MS Clear Coat 8180	3:1+10%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	N/A	5.0		
Permaseal® MS Clear Coat 8180 Elastized	3:1+10%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	+15-30% 9050	5.0	9050 must be added before hardener	
Permaseal® HS Diamond Clear Coat 8450	3:1+0-5%	3040		8580, 3363, 3365	5.0		
Permaseal® HS Diamond Clear Coat 8450 - ASAP	2:1+0-5%	3040		8580, 3363, 3365	5.0	9050 must be added before hardener	
Permaseal® HS Optimum Clear Coat 8600	3:1+0-5%	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	N/A	5.0		
Permaseal® HS Optimum Clear Coat 8600 Elastized	3:1	3220, 3230, 3240, 3245	8580, 3363, 3365, 9025	+15-30% 9050	5.0	9050 must be added before hardener	
Permaseal® Clear Coat Additive 9002						See TDS 997.0 for Mixing Recommendations	
Specialty Coatings VOC Limit = 7.0 lbs/gal (840 g/L)							
Adhesion Promoters							
Permaseal® Transparent Surface 8550	3:1+20-30%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	N/A	7.0		
Permaseal® Transparent Surface 8550	4:1+30%	3220, 3230, 3240, 3245	8580, 3363, 3365	N/A	7.0		
Permaseal® Vano Surface 8590	3:1+20-30%	3307, 3309, 3310, 3315, 3320, 3325	8580, 3363, 3365	N/A	7.0		
Permaseal® Vano Surface 8590	6:1+30-40%	3220, 3230, 3240, 3245	8580, 3363, 3365	N/A	7.0		
Elastomers Coatings							
Permaseal® 1:1 Elastic Primer Surface 3300	1:1	3301	N/A	N/A	7.0		
330™ Acrylic Plastic Primer Surface Gray	1:1	331	N/A	N/A	7.0		
330™ Acrylic Plastic Primer Surface Black	1:1	331	N/A	N/A	7.0		
Permaseal® Elastic Primer 3304	Ready to Use	334	N/A	N/A	7.0		
Permaseal® Elastic Primer 3							