



U.S. National Rule

National Volatile Organic Compound Emission Standards for Automobile Refinish Coatings

40 CFR Parts 9 and 59

Published: 9/11/1998 | In Effect: 1/11/1999



Coating Category	lbs/gal Limit: VOC Regulatory (Less Water Less Exempts).	
Pretreatment Coatings	6.5 (780)	
Primer Surfacer	4.8 (576)	
Primer Sealer	4.6 (552)	
Single Stage Coating	5.0 (600)	
Multi Stage Coating: 2 Stage (BC/CC)	5.0 (600)	
Multi Stage Coating: 3 or more Stages (BC/CC)	5.2 (623)	
Specialty Coatings	7.0 (840)	

Product Code & Name	Hardener/Activator	Reducer	Mix Ratio	VOC Content
Solvent (Surface Cleaner)				Not Regulated by National Rule
JX101 Wax and Grease Remover	-	-	RFU	6.36 (762)
JX992 Plastic Cleaner	-	-	RFU	6.49 (779)

Product Code & Name	Hardener/Activator	Reducer	Additives	Mix Ratio	Applied VOC Less Water Less Exempt
Pretreatment Coating					Limit: 6.50 lbs/gal 780 gm/L
JP215 Etch Primer	JH2150	-	-	3:1	6.44 (772)
Primer / Primer Surfacer					Limit 4.80 lbs/gal (576 g/L)
JP233 1K Acrylic Primer	-	JT502	-	1:1	4.60 (551)
JP285 2K Urethane Surfacer	JH3865, JH3885	-	-	5:1	4.66 (558)
JP285 2K Urethane Surfacer Tinted with JAU Color	JH3865, JH3885	-	-	4:1:1	4.66 (558)
JP202 2K Primer Surfacer	JH301, JH302	-	-	4:1	4.24 (508)
JP202 2K Primer Surfacer	JH301, JH302	JR50x	-	4:1:1	4.66 (558)
JP209 Polyester Primer/Filler	MEKP	-	-	0.5 oz. per quart	0.98 (118)
Primer Sealer (apply over previously coated surfaces)					Limit: 4.60 lbs/gal (552 g/L)
JP335 2K Urethane Sealer - Gray	JH301, JH302	-	-	4:1:1	3.80 (455)
JP37X Series Epoxy Primer	JH3770	-	-	2:1	4.60 (550)
JP385 2K Sealer	JH3865, JH3885	-	-	5:1	4.60 (550)
JP385 2K Sealer Tinted with JAU Color	JH3865, JH3885	-	-	4:1:1	4.60 (550)
JP315 1K Acrylic Sealer	-	JR50X	-	4:1	4.60 (550)
Single Stage Topcoats					Limit: 5.00 lbs/gal (600 gm/L)
JE Acrylic Enamel	-	JR50X, JR40XX	-	4:1	5.00 (599)
JE Acrylic Enamel with Hardener	JH6001, JH6002	JR50X, JR40XX	-	8:1:1	5.00 (599)
JAU Direct Gloss Acrylic Urethane	JH6670, JH6680, JH6690	JR50X	-	4:1:1	5.00 (599)
JLV 3.5 Low VOC Direct Gloss Acrylic Urethane	JH6035	JR50X	-	4:1:1	3.42 (410)

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Product Code & Name	Hardener/Activator	Reducer	Additives	Mix Ratio	Applied VOC Less Water Less Exempt
Multi Stage Topcoat		System VOC Limit: 5.0¹ lbs/gal (600 g/l) Less Water, Less Exempt			
Color Coating		Limit: 6.3² lbs/gal (755 g/L)			
JB Basecoat	-	JR50X	-	1:1	6.30 (755)
JBP Acrylic Urethane Basecoat	-	JR50X	-	1:1	6.30 (755)

Product Code & Name	Hardener/Activator	Reducer	Additives	Mix Ratio	Applied VOC Less Water Less Exempt
Clear Coating		Limit: 4.35² lbs/gal (521 g/L)			
JC60 Universal Clearcoat	JH63 , JH64	-	-	4:1	4.18 (501)
JC620 Acrylic Urethane Clearcoat	JH6265 , JH6285	-	-	4:1	4.14 (496)
JC630 4.2 Polyurethane Clearcoat	JH6360, JH6370, JH6380	-	-	4:1	4.18 (501)
JC660 Rapid Spot / Panel Clearcoat	JH6670, JH6680, JH6690	-	-	4:1	4.31 (517)
JC661 High Gloss Multi-Panel Clearcoat	JH6670, JH6680, JH6690	-	-	4:1	4.38 (525)
JC6700 Euro Clear	JH6710 , JH6720	-	-	2:1	3.97 (476)

Coatings for Process Specific Purposes / Additives to Create Specialty Coatings ³	
JP301 Adhesion Promoter	SXA1041 Bumper Black
JX993 Flex Additive	SXA1044 High Build Flexible Surfacer
SX1056 Flexible Sealer	SXA1050 Plastic Adhesion Promoter
JX994 Fisheye Eliminator	SU4901 Clean and Scuff Sponge
JX995 Accelerator	SU4902 Plastic Prep Wipe
SX1057 Flexible Surfacer	SU4903/SUA4903 Advanced Plastic Bond
SXA103 Multi-Prep Cleaner	
SXA330 Wax & Grease remover	
SXA1030 Black Guide Coat	
<ol style="list-style-type: none"> 1. The VOC limit on Tri-Coat and Quad-Coat Multi-Stage Systems is 5.2 lbs/gal. 2. The VOC of the BC/CC (Multi-stage) system is found by BC/CC composite calculation, where the $VOC_{sys} = (VOC_{bc} + 2VOC_{cc}) / 3$, as specified by current air quality regulations. 3. Specialty coatings include, but are not limited to, the listed products. 	

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