



# Massachusetts VOC Chart

Automobile Refinishing

310 CMR 7.18 (28)

In Effect: 8/1/1995



| Coating Category                               | lbs/U.S. gal (g/L) Limit: VOC Regulatory (Less Water Less Exempts). |
|--|---|
| Surface Preparation (Cleaner) - Plastic*       | 6.5 (780)   |
| Surface Preparation (Cleaner) - Other*         | 1.67 (200)  |
| Pre-Treatment Wash Primer                      | 6.5 (780)   |
| Primer Surfacer                                | 4.8 (575)   |
| Primer Sealer                                  | 4.6 (550)   |
| 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 (620)   |
| Specialty Coatings                             | 7.0 (840)   |

\*VOC content value applies to this category only

| Product Code & Name  | Hardener/Activator | Reducer | Mix Ratio | VOC Content                                      |
|--|--------------------|---------|-----------|--|
| <b>Solvent (Surface Cleaner)</b>                                   |                    |         |           | <b>Limit: 6.5 / 1.67 lbs/gal (780 / 200 g/L)</b> |
| SWX350 H <sub>2</sub> O-SO-CLEAN <sup>®</sup> Wax & Grease Remover | -                  | -       | -         | 0.17 (20)  |
| SX103 Multi-Prep (plastic only)                                    | -                  | -       | -         | 6.49 (778)                                       |
| SX394 1.4 Low VOC Cleaner  | -                  | -       | -         | 1.34 (161)                                       |

| Product Code & Name  | Hardener/Activator | Reducer | Additives | Mix Ratio       | Applied VOC<br>Less Water Less Exempt |
|--|--------------------|---------|-----------|-----------------|---------------------------------------|
| <b>Pre-Treatment Coatings</b>                                |                    |         |           |                 | <b>Limit: 6.5 lbs/gal (780 g/L)</b>   |
| JP310 Chrome Free Etch Primer                                | JH3110             | -       | -         | 1:1             | 6.04 (724)                            |
| SX1071 ECOBASE <sup>®</sup> 5.5 Etch Prime                   | SX1072             | -       | -         | 1:1             | 5.48 (657)                            |
| SXA1031 Etch Primer - Gray                                   | -                  | -       | -         | Aerosol         | N/A                                   |
| <b>Primer Surfacer</b>                                       |                    |         |           |                 | <b>Limit 4.8 lbs/gal (575 g/L)</b>    |
| JP202 High Build Primer Surfacer                             | JH301, JH302       | JR50x   | -         | 4:1:1           | 4.66 (558)                            |
| JP211 Gray Polyester Primer / Filler                         | MEKP               | -       | -         | 1 oz. per quart | 1.36 (163)                            |
| JP233 1K Acrylic Primer                                      | -                  | JT502   | -         | 1:1             | 4.80 (575)                            |
| JP35x 2.1 VOC Multi-Purpose Primer                           | JH358              | JH55x   | -         | 4:1:2           | 2.05 (246)                            |
| JP390 2.1 VOC Epoxy Primer                                   | JH397              | JR55x   | -         | 2:1:1           | 2.07 (248)                            |
| <b>Primer Sealer (apply over previously coated surfaces)</b> |                    |         |           |                 | <b>Limit: 4.6 lbs/gal (550 g/L)</b>   |
| JP315 1K Acrylic Sealer                                      | -                  | JR50x   | -         | 4:1             | 4.60 (552)                            |
| JP33x 2K Urethane Sealer                                     | JH301, JH302       | JR50x   | -         | 4:1:1           | 4.54 (544)                            |
| JP35x 2.1 VOC Multi-Purpose Primer                           | JH358              | JR55x   | Clear     | 3:1:1:1         | 2.09 (250)                            |
| JP35x 2.1 VOC Multi-Purpose Primer (roll)                    | JH358              | JR55x   | -         | 4:1:2           | 1.96 (235)                            |
| JP36x 2.1 VOC Urethane Sealers                               | JH358              | JR55x   | -         | 4:1:1           | 2.09 (250)                            |
| JP37x Epoxy Primer   | JH3770             | -       | -         | 2:1             | 4.54 (544)                            |
| JP385 2K Sealer  | JH3865, JH3885     | -       | -         | 5:1             | 4.60 (552)                            |
| JP390 2.1 VOC Epoxy Primer                                   | JH397              | JR55x   | -         | 2:1:2           | 2.07 (248)                            |



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|--|--------------------|--------------|-----------|-----------|---|
| <b>Single Stage Coating</b>  |                    |              |           |           | <b>Limit: 5.0 lbs/gal (600 g/L)</b>                                       |
| JE Acrylic Enamel  | -                  | JR50x/JR40xx | -         | 4:1       | 5.0 (599)   |
| JE Acrylic Enamel Activated  | JH6001, JH6002     | JR50x/JR40xx | -         | 8:1:1     | 5.0 (599)   |
| JLX 2.8 VOC Acrylic Enamel   | JH6028             | JR55x        | -         | 4:1:1     | 2.76 (331)  |
| JAU Acrylic Urethane Direct Gloss  | JH667x             | JR50x/JR556x | -         | 4:1:1     | 5.0 (599)   |
| JTX 2.8 VOC Acrylic Urethane Direct Gloss  | JH6028             | JR55x        | -         | 4:1:2     | 2.8 (335)   |
| <b>Multi-Stage Topcoat System</b>  |                    |              |           |           | <b>System VOC Limit <sup>1,2</sup>: 5.0 / 5.2 lbs/gal (600 / 624 g/L)</b> |
| <b>Color Coating</b>   |                    |              |           |           | <b>Limit <sup>2</sup>: 6.3 lbs/gal (755 g/L)</b>                          |
| JB Acrylic Basecoat  | -                  | JR50x/JR55xx | -         | 1:1       | 6.29 (755)  |
| JBP Plus Acrylic Urethane Basecoat   | -                  | JR50x/JR55xx | -         | 1:1       | 6.30 (755)  |
| JBX 3.5 Acrylic Basecoat   | -                  | JR29X        | -         | 1:1       | 3.48 (417)  |
| <i>Use JBPX blend to spray mix recommendation without JH6028 only with new color formulas that contain J179</i>  |                    |              |           |           |   |
| JBPX 3.5 VOC Acrylic Urethane Basecoat   | -                  | JR55X        | -         | 1:1       | 3.49 (419)  |
| <i>Use JBPX blend to spray mix recommendations with JH6028 with all historic color formulas that contain J136</i>  |                    |              |           |           |   |
| JBPX 3.5 VOC Acrylic Urethane Basecoat   | JH6028             | JR55X        | -         | 10:1:10   | 3.48 (417)  |
| JBPX 3.5 VOC Acrylic Urethane Basecoat   | JH6028             | JR55X        | -         | 10:1:5    | 3.48 (417)  |
| <b>Clear Coating</b>   |                    |              |           |           | <b>Limit <sup>2</sup>: 4.3 lbs/gal (515 g/L)</b>                          |
| JC620 Acrylic Urethane Clearcoat   | JH62xx             | -            | -         | 4:1       | 4.14 (496)  |
| JC630 4.2 Polyurethane Clearcoat   | JH63xx             | -            | -         | 4:1       | 4.18 (501)  |
| JC660 Rapid Spot / Panel Clearcoat   | JH66xx             | -            | -         | 2:1       | 4.29 (514)  |
| JC661 High Gloss Multi-Panel Clear   | JH66xx             | -            | -         | 2:1       | 4.29 (514)  |
| JC6800 HS European Speed Clear   | JH68xx             | -            | -         | 2:1       | 4.20 (503)  |
| JC7200 HS European Clearcoat   | JH72xx             | -            | -         | 2:1       | 2.08 (249)  |
| JC830 2.1 VOC Production Clear   | JH83xx             | JR55x        | -         | 4:1:0.5   | 2.08 (249)  |
| <p>1. The VOC limit on Tri-Coat and Quad-Coat Multi-Stage Systems is 5.2 lbs/gal.</p> <p>2. The VOC of the BC/CC (Multi-stage) system is found by BC/CC composite calculation, where the <math>VOC_{sys} = (VOC_{bc} + 2VOC_{cc}) / 3</math>, as specified by current air quality regulations.</p> <p>3. Specialty coatings include, but are not limited to, the listed products</p> |                    |              |           |           |   |

### Additional Products (listing not intended to be all inclusive)

|                                    |   |  |
|------------------------------------|---|--|
| SLV4985 Universal Flattening Agent | SU4901 Clean and Scuff Sponge           | SXA1044 High Build Flexible Surfacer (Aerosol) |
| SLV73 Fisheye Eliminator           | SUA4903 Advanced Plastic Bond (Aerosol) | SXA1050 Plastic Adhesion Promoter (Aerosol)    |
| SLV814 Universal Flexibilizer      | SWX100 Waterborne Gun Cleaner           | SX1047 High Build WB Flexible Surfacer         |
| SLV840 Uniform Finish Blender      | SXA840 Uniform Finish Blender (Aerosol) | SU470LV 1K Compliant Adhesion Promoter         |
| SLV898 Retarder                    | SXA1030 Black Guide Coat (Aerosol)      |  |

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