



# El Dorado County AQMD

Automotive Refinishing Operations

## Rule 230

Amended: 9/27/1994 | In Effect: 6/1/1995



| Coating Category                              | lbs/U.S. gal (g/L) Limit: VOC Regulatory (Less Water Less Exempts). |  |
|---|---|--|
| Surface Preparation Solvent (Non-plastic)*    | 0.6 (72)  |  |
| Surface Preparation Solvent (Plastic)*        | 6.5 (780)   |  |
| Pretreatment Wash Primer                      | 6.5 (780)   |  |
| Precoat                                       | 5.0 (600)   |  |
| Primer / Primer Surfacer                      | 2.1 (250)   |  |
| Primer Sealer                                 | 3.5 (420)   |  |
| Single Stage Coating - Solid Color / Metallic | 3.5 (420) / 4.3 (520)   |  |
| Multi Stage Topcoats System                   | 4.5 (540)   |  |
| Specialty Coating                             | 7.0 (840)   |  |

\*VOC content applies to this category only

| Product Code & Name  | Hardener/Activator | Reducer | Mix Ratio | VOC Content                                    |
|--|--------------------|---------|-----------|--|
| <b>Solvent (Surface Cleaner)</b>                                   |                    |         |           | <b>Limit: 0.6 / 6.5 lbs/gal (72 / 780 g/L)</b> |
| SWX350 H <sub>2</sub> O-SO-CLEAN <sup>®</sup> Wax & Grease Remover | -                  | -       | -         | 0.17 (20)                                      |
| SX103 MULTI-PREP <sup>®</sup> (Plastic only)                       | -                  | -       | -         | 6.49 (778)                                     |
| JX992 Plastic Cleaner (Plastic only)                               | -                  | -       | -         | 6.49 (778)                                     |
| SXA103 MULTI-PREP <sup>®</sup> Cleaner**                           | -                  | -       | Aerosol   | 5.88 (705)                                     |
| SXA330 Wax and Grease Remover**                                    | -                  | -       | Aerosol   | 5.77 (691)                                     |

\*\*Rule 235 H. Cleaning with aerosol products shall not be subject to the provisions of Sections 235.3 A. and 235.3 E.1. of this rule if 160 fluid ounces or less per day per facility of aerosol products are used.

| 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>             |
| SX1071 ECOBASE <sup>®</sup> 5.5 Etch Prime                   | SX1072             | -       | -         | 1:1             | 5.48 (657)                                      |
| SXA1031 Etch Primer - Gray                                   | -                  | -       | -         | Aerosol         | N/A   |
| <b>Precoat</b>   |                    |         |           |                 | <b>Limit: 5.0 lbs/gal (600g/L)</b>              |
| JP37X Epoxy Primer   | JH3770             | -       | -         | 2:1             | 4.54 (539)                                      |
| <b>Primer Surfacer</b>                                       |                    |         |           |                 | <b>Limit 2.1 lbs/gal (250 g/L)</b>              |
| JP211 Gray Polyester Primer / Filler                         | MEKP               | -       | -         | 1 oz. per quart | 1.36 (163)                                      |
| JP35X 2.1 VOC Multi-Purpose Primer                           | JH358              | JR554   | -         | 4:1:2           | 1.96 (235)                                      |
| 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: 3.5 lbs/gal (420 g/L)</b>             |
| 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)                                      |
| JP390 2.1 VOC Epoxy Primer                                   | JH397              | JR55x   | -         | 2:1:2           | 2.07 (248)                                      |
| <b>Single Stage Coating</b>                                  |                    |         |           |                 | <b>Limit: 3.5 / 4.3 lbs/gal (420 / 520 g/L)</b> |
| JTX 2.8 VOC Direct Gloss Acrylic Urethane                    | JH6028             | JR55X   | -         | 4:1:2           | 2.80 (335)                                      |
| JLX 2.8 VOC Acrylic Enamel                                   | JH6028             | JR55X   | -         | 4:1:1           | 2.76 (331)                                      |



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| Product Code & Name  | Hardener/Activator | Reducer      | Additives | Mix Ratio | Applied VOC<br>Less Water Less<br>Exempt  |
|--|--------------------|--------------|-----------|-----------|---|
| <b>Basecoat for Multi Stage Topcoat System</b>   |                    |              |           |           | System VOC Limit <sup>1,2</sup> : 4.5 lbs/gal (540 g/L)<br>Limit <sup>2</sup> : 4.5 lbs/gal (540 g/L) |
| 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)  |
| <b><i>Use JBPX blend to spray mix recommendation without JH6028 only with new color formulas that contain J179</i></b>   |                    |              |           |           |   |
| JBPX 3.5 VOC Acrylic Urethane Basecoat   | -                  | JR55X        | -         | 1:1       | 3.49 (419)  |
| <b><i>Use JBPX blend to spray mix recommendations with JH6028 with all historic color formulas that contain J136</i></b> |                    |              |           |           |   |
| 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>Clearcoat for Multi Stage Topcoat System</b>  |                    |              |           |           | Limit <sup>2</sup> : 3.6 lbs/gal (420 g/L)  |
| JC830 2.1 VOC Production Clear   | JH83xx             | JR55x        | -         | 4:1:0.5   | 2.08 (249)  |
| JC7200 HS European Clearcoat   | JH72xx             | -            | -         | 2:1       | 2.08 (249)  |

<sup>1</sup> The VOC limit on a Multi Stage Topcoat System is 4.5 lbs/gal.

<sup>2</sup> The VOC of the BC/CC system is determined by BC/CC composite calculation, where the VOC system = (VOC BC + VOC CC) / 3

For 3 stage coating system BC/MC/CC, where the VOC system = (VOC BC + VOC MC + 2\*VOC CC) / 4

For 4 stage coating system, please refer to the regulation.

**System VOC - There is a maximum applied VOC limit of 4.5 lbs/gal for the Multi Stage BC/CC system. Use the Chart below to determine the maximum VOC of the selected clear that can be used with your basecoat VOC to meet the 4.5 limit. VOC calculations are based on worst-case scenarios of the RTS mixed color and solvents. Verify VOC calculations if deviating from the chart.**

\*\*Special blend ratio may be required for groundcoat and midcoat in tri-coat systems for VOC compliance (see basecoat TDS).

\*\*\*See chart below for appropriate RTS VOC clear. If Multi-Stage VOC calculation is above 4.5 lbs/gal due to VOC of RTS basecoat, MUST choose lower VOC clearcoat or use basecoat TDS special blend option.

| Basecoat VOC | Use Max Clearcoat VOC |
|--------------|-----------------------|
| 6.3          | 3.55                  |
| 5.8          | 3.80                  |
| 5.3          | 4.05                  |
| 4.8          | 4.30                  |
| 4.3          | 4.55                  |
| 3.8          | 4.8                   |
| 3.3          | 5.05                  |

### 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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