



Massachusetts VOC Chart

Automobile Refinishing

310 CMR 7.18 (28)

Effective: 8/1/1995



| Coating Category | lbs/gal (g/L) Limit: VOC Regulatory (Less Water Less Exempts). | |
|---|--|---------------------|
| Pre-Treatment Wash Primer | 6.5 (780) | * VOC content value |
| Primer/Primer Surfacer | 4.8 (576) | |
| Primer Sealer | 4.6 (552) | |
| Topcoat—Single Stage Coating | 5.0 (600) | |
| Multi-Stage Topcoat 2-stage (BC/CC) | 5.0 (600) | |
| Multi-Stage Topcoat 3 or more stage (BC/CC) | 5.2 (624) | |
| Specialty Coating | 7.0 (840) | |
| Surface Preparation (cleaner) - Plastic | 6.5 (780)* | |
| Surface Preparation (cleaner) - Other | 1.67 (200)* | |

| Product Code & Name | Hardener/ | Reducer | Mix Ratio | VOC Content |
|----------------------------------|-----------|---------|-----------|--------------------------------|
| Surface Preparation | | | | Limit: 6.5/1.67lbs/ gal |
| DX103 MULTI-PREP™ (plastic only) | - | - | - | 6.49 |
| DX394 1.4 Low VOC Cleaner | - | - | - | 1.34 |
| SWX350 H2O-So-Clean™ | - | - | - | 0.2 |
| SX1005 0.4 Low VOC Cleaner | - | - | - | 0.4 |

| Product Code & Name | Hardener/Activator | Reducer | Additives | Mix Ratio | Applied VOC Less Water Less Exempt |
|--|--------------------|---------------|-----------|-----------|--|
| Pretreatment Coatings | | | | | Limit: 6.5 lbs/gal |
| DX171 Non-Chrome Self Etch Primer | DPX172 or DPX173 | - | - | 1:1 | 6.1 |
| DX1791 Self Etching Primer | DPX1792 | - | - | 1:1 | 6.2 |
| SXA1031 Etch Primer - Gray | - | - | - | Aerosol | N/A |
| SX1031 Etch Primer - Gray | - | - | - | RTS | 6.11 |
| SX1071 Etch Prime | SX1072 | - | - | 1:1 | 5.48 |
| Primer/Primer Surfacer | | | | | Limit: 4.8 lbs/gal |
| DPLF Epoxy Primer Lead Free | DP401LF or DP402LF | - | - | 2:1 | 4.6 |
| DPLF Epoxy Primer Lead Free | DP401LF or DP402LF | DT Series | - | 2:1: ¼ | 4.8 |
| DPS305x Acrylic Urethane Surfacer | DCX3030 | - | - | 4:1 | 4.21 |
| DPS305x Acrylic Urethane Surfacer | DCX3030 | DT Series | - | 4:1:1 | 4.68 |
| DS1002 UV Cured Primer Surfacer | - | - | - | Aerosol | 3.68 |
| DZ KONDAR® Acrylic Primer Surfacer | - | DTV801 or 802 | - | 5:6 | 4.8 |
| K36 PRIMA® Primer Surfacer | K201 | - | - | 5:1 | 4.22 |
| K36 <i>Prima</i> Primer Surfacer | K201 | DT Series | - | 5:1:1 | 4.63 |
| K36 <i>Prima</i> Primer Surfacer: tinted w/ DMD ¹ , DMC, DCC | K201 ² | DT Series | toner | 4:1:2:2 | 4.62 |



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| Primer/ Primer Surfacer (cont.) | | | | | Limit: 4.8 lbs/gal |
|--|---------------------|-----------|-------|--------------------|--------------------|
| K38 High Build Primer Surfacer | K201 | - | | 4:1 | 4.2 |
| K93 Tintable Primer Surfacer w/ DMD ¹ , DMC, DCC | K201 ² | DT Series | Toner | 4:1:1:1 | 4.7 |
| NCP250 NCT [®] Primer Surfacer | NCX255 | DT Series | | 4:1 | 4.8 |
| NCP270/271 Corrosion Resistant Primer | NCX275 | DT Series | | 3:1 | 3.5 |
| NCP270/271 Corrosion Resistant Primer | NCX275 | DT Series | | 3:1:½ | 3.9 |
| NCP270/271 Corrosion Resistant Primer: tinted w/ DMD, DMC, DCC | NCX275 ² | DT Series | Toner | 4:1:1 ⁵ | 4.3 |
| SX1060 2K Rollable Surfacer LV | SX1061 | | | 4:1 | 4.38 |

| Product Code & Name | Hardener/Activator | Reducer | Additives | Mix Ratio | Applied VOC Less Water Less Ex-empt |
|--|--------------------|-----------|-----------|----------------------------------|--|
| Primer Sealer | | | | | Limit: 4.6 lbs/ gal |
| DPLF Epoxy Primer | DP401LF or DP402LF | | | 2:1 | 4.6 |
| DAS302x Acrylic Urethane Sealer | DCX3030 | DT Series | | 3:1:1 | 4.6 |
| K36 <i>Prima</i> Wet-on-Wet sealer: DMC, DMD ¹ , DCC, DCU2021 | DCX8 ² | DT Series | Toner | 4:1:2:2 | 4.6 |
| K93 Tintable Primer Sealer: DMC, DMD ¹ , DCC | DCX8 ² | DT Series | Toner | 4:1:2:2 | 4.6 |
| NCS200x <i>Deltron</i> Sealer | NCX2020 | DT Series | | 2:1:1 | 4.6 |
| NCS200x <i>Deltron</i> Sealer: tinted with DMC color | NCX2020 | DT Series | Toner | 2:1* : 2 : 2 (*DMC tint only) | 4.6 |

| Single Stage Topcoats | | | | | Limit: 5.0 lbs/gal |
|--|---------------|------------------|--|-------|--------------------|
| CONCEPT [®] (DCC) Acrylic Urethane | DU5 or DU6 | DT Series | | 4:2:1 | 5.0 |
| <i>Concept</i> (DCC) Acrylic Urethane | DFX11 | DT Series | | 2:2:1 | 5.0 |
| DELSTAR [®] (DAR/DXR80) Acrylic Polyurethane Enamel | DXR80 | DT or DTR Series | | 8:1:3 | 5.0 |
| <i>Concept</i> (DCC) Acrylic Urethane | DCX9 or DCX61 | DT Series | | 4:1:2 | 5.0 |
| <i>Delstar</i> (DAR/DU5) Acrylic Polyurethane Enamel | DU5 | DT Series | | 4:1:1 | 5.0 |

Multi Stage Topcoats System VOC Limit : 5.0³ lbs/gal Less water, Less Exempt

| Multi Stage Basecoat | | | | | B/C Limit: 6.6 ⁴ lbs/gal |
|--|--|------------|------|----------|-------------------------------------|
| <i>Deltron</i> DBU) Universal Basecoat | | DRR Series | - | 1:1½ | 6.6 |
| <i>Deltron</i> 2000 (DBC) Basecoat | | DT Series | - | 1:1 | 6.6 |
| <i>Deltron</i> 2000 (DBC) Basecoat | | DT Series | DX57 | 1:1 + 5% | 6.36 |



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| Product Code & Name | Hardener/Activator | Reducer | Additives | Mix Ratio | Applied VOC Less Water Less Exempt |
|---|--------------------------|-------------------|-----------|--------------------|--|
| Multi Stage Clear Coating | | | | | Limit: 4.2⁴ lbs/ gal |
| DCU2002 ⁵ <i>Concept</i> 2002 Urethane Clear | DCX8, DCX9 or DCX61 | DT Series | | 4:1:1 ⁵ | 4.1 |
| DCU2002 <i>Concept</i> 2002 Urethane Clear | DFX11 | DT Series | | 5:5:1 | 4.2 |
| DCU2021 ⁵ <i>Concept</i> 2021 Urethane Clear | DCX8, DCX9 or DCX61 | DT Series | | 4:1:1 ⁵ | 4.1 |
| DCU2021 <i>Concept</i> 2021 Urethane Clear | DFX11 | DT Series | | 5:5:1 | 4.2 |
| DCU2042 Low VOC Speed Clear | DCX9 or DCX61 | DT Series | | 4:1:1 | 4.1 |
| DC2000 Ultra Velocity Clearcoat | DCH2015 | DR220 / DT Series | | 4:1:1 | 4.17 |
| DC3000 <i>Deltron</i> High Velocity Clear | DCH3070, DC3085, DCH3095 | - | | 4:1 | 3.98 |
| DC4000 <i>Deltron</i> Velocity Premium Clear | DCH3070, DC3085, DCH3095 | - | | 4:1 | 4.15 |

| Coatings for Process Specific Purposes / Additives to Create Specialty Coatings ⁶ | | | Limit: 7.0 lbs/gal |
|--|---|-----------------------------------|--------------------|
| DAU75/DXR80 Bright metal Clear | DX87 Extender | SXA1033 Texture Spray | |
| DBC500 Color Blender | DX369 FLEXATIVE | SXA1041 Bumper Black | |
| DBU500 Color Blender | DX685 Flattening Additive | SU4985 Universal Flattening Agent | |
| DCU2060 Flexed N Flat | DX814 Flex Additive | SXA1050 Plastic Adhesion Promoter | |
| DCU Clears/DX814 Flexed Clears | DX840 Blend-Ease Universal Blending Solvent | SU4901 Clean and Scuff Sponge | |
| DPLF Epoxy Weld thru coating | DX995 Flattening Additive | SU4902 Plastic Prep Wipe | |
| DPX801 Universal Plastics Primer | DXR81 Accelerator | SU4903 Advanced Plastic Bond | |
| DU1000 Durethane Clear | NCP250/DX814 Flexed Primers | SUA4903 Advanced Plastic Bond | |
| DX54 ROADGUARD® | SX1056 Flexible Sealer | D8115/D8117 Matt Clear | |
| DX73 Anti Crater | SX1057 Flexible Surfer | | |
| DX84 Accelerator | SXA1030 Black Guide Coat | | |

1. No "Basecoat Only" DMD Bases
2. Use Mixing Bases with a VOC of 4.6 lbs/gal. or less to attain recommended VOC limits
3. The VOC limit on Tri-Coat and Quad-Coat Multi-Stage Systems is 5.2 lbs/gal.
4. 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.
5. If desired, add ½ oz. of DX84 or DX87 to DCU2002 or add ½ oz. of DX84 to DCU2021.
6. Specialty coatings include, but are not limited to, the listed products.

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