

**REGULATION 8  
ORGANIC COMPOUNDS  
RULE 32  
WOOD PRODUCTS COATINGS**

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**REGULATION 8  
ORGANIC COMPOUNDS  
RULE 32  
WOOD PRODUCTS COATINGS**

(Adopted September 21, 1983)

**8-32-100 GENERAL**

**8-32-101 Description:** The purpose of this Rule is to limit emissions of volatile organic compounds from the coating of wood products, including surface preparation, application of coatings ~~to, and cleanup and surface preparation of, any wood products, including furniture, cabinets and custom architectural millwork. This Rule shall not apply to residential noncommercial operations.~~

*(Amended April 17, 1991)*

**8-32-110 Deleted October 6, 1993**

**8-32-111 Exemption, Non-commercial and Small Coating Operations:** This Rule shall not apply to residential non-commercial operations or ~~The provisions of this Rule shall not apply to~~ facilities that use a total of less than 20 gallons of coating per year.

*(Adopted April 17, 1991)*

**8-32-112 Exemption, Specific Operations:** The provisions of this Rule shall not apply to the following specific coating operations:

112.1 Coatings and adhesives applied to Flatwood Paneling and Wood Flat Stock subject to the provisions of Regulation 8, Rule 23.

112.2 Coating applied to stationary structures and their appurtenances subject to the provisions of Regulation 8, Rule 3. ~~or Rule 48~~

112.3 Coating applied from aerosol cans subject to the provisions of 17 California Code of Regulations, commencing at §94520 ~~Regulation 8, Rule 49.~~

112.4 Adhesive coating subject to the provisions of Regulation 8, Rule 51.

*(Adopted 4/17/91; Amended 11/18/92)*

**8-32-113 Exemption, Refinishing, Replacement and Custom Replica Furniture Operations:** The provisions of Sections 8-32-302, 303, 304, 305 and 501 shall not apply to: any refinishing operation necessary for preservation of a wood product or, to return a the wood product or furniture to its original condition; ~~to the production of custom furniture to~~ replace missing items from furniture to produce a matching set; ~~or to the production of produce~~ custom replica furniture.

*(Adopted 4/17/91; Amended 6/19/96)*

**8-32-114 Exemption, Stencil Coatings:** The provisions of this Rule shall not apply to the application of coatings by template in order to add designs, letters or numbers to products. The application of stencil coatings is subject to the provisions of Regulation 8, Rule 4.

*(Adopted April 17, 1991)*

**8-32-115 Exemption, Specific Finishes:** The provisions of Sections 8-32-301, 302, 303, and 304 shall not apply to coatings used to produce the following finishes, provided records are maintained as specified in Section 8-32-501:

115.1 Crackle lacquers

115.2 Leaf finishes

115.3 Faux finishes

115.4 Imitation wood grain

The application of coatings used to produce these specific finishes is subject to the provisions of Regulation 8, Rule 4.

*(Adopted April 17, 1991; Amended June 19, 1996)*

**8-32-116 Exemption, Musical Instruments:** The provisions of this Rule shall not apply to the application of coatings to musical instruments.

*(Adopted April 17, 1991)*

**8-32-117 Limited Exemption, Polyester Resin Application:** The application of polyester resin with a VOC content of less than 120 grams VOC per liter (1.0 pound VOC per gallon) shall be exempt from the spray application equipment limitations of Section 8-32-301.

*(Adopted April 17, 1991)*

**8-32-118 Exemption, Patternmaking:** The provisions of this Rule shall not apply to the application of coating to wood patterns used as tooling for the foundry industry. The application of such coating is subject to the provisions of Regulation 8, Rule 4.

*(Adopted June 19, 1996)*

**8-32-119 Limited Exemption, Extreme Environmental Conditions:** Any wood product that will be subject to extreme environmental conditions shall be exempt from the requirements of Section 8-32-302~~may be coated pursuant to the limits in Section 8-32-303~~, provided that the requirements of Section 8-32-304 and Section 8-32-403 are satisfied.

*(Adopted June 19, 1996)*

**8-32-120 Recordkeeping Exemption, Low VOC Facilities:** Any facility subject to this Rule, in which only low VOC coatings thinned exclusively with water are ~~exclusively~~ stored and used shall be exempt from sections 8-32-501.2, 501.4, 502.2, 502.3, and 503. For the purposes of this exemption, low-VOC coatings are high-solids coatings with a VOC content as calculated in 8-32-605 of no more than 275 grams per liter (2.3 lb/gal), as applied (after thinning), and low-solids coatings with a VOC content as calculated in 8-32-604 of no more less than 120 grams per liter (1.0 lb/gal), as applied (after thinning). This exemption shall ~~only~~ apply only if the requirements of Section 8-32-405 are satisfied.

*(Adopted June 19, 1996)*

## 8-32-200 DEFINITIONS

~~8-32-201 Deleted April 17, 1991~~

**8-32-216~~01~~ Air Assisted Airless Spray:** Equipment used to apply coatings that uses fluid pressure to atomized the coating and air pressure between 0.1 and 50 psig to adjust the spray pattern.

*(Adopted 4/17/91; Amended 7/6/94)*

**8-32-215~~02~~ Airless Spray:** Equipment used to apply coatings by use of fluid pressure without atomizing air, including heated airless spray.

*(Adopted April 17, 1991)*

**8-32-202~~3~~ Binders:** Non-volatile polymeric organic materials (resins) ~~which that~~ form surface film in coating applications.

~~8-32-204 Deleted April 17, 1991~~

**8-32-205~~4~~ Clear Sealer:** A coating containing binders, but not opaque pigments, that seals the wood prior to application of, and provides a sandable surface for, the subsequent coatings.

**8-32-203~~5~~ Clear Topcoat:** ~~The A~~ final coating ~~which that~~ contains binders, but not opaque pigments, and is ~~specifically~~ formulated to form a transparent or translucent solid protective film.

**8-32-205~~6~~ Conversion Varnish:** Any coating comprised of a homogeneous alkyd-amino resin liquid that, when acid-catalyzed and applied, hardens upon exposure to air or heat, by evaporation and polymerization, to form a continuous film that imparts protective or decorative properties to wood surfaces.

**8-32-220~~7~~ Crackle Lacquer:** A clear or pigmented topcoat designed to shrink and crack as it dries, creating intended to dry to produce a cracked or crazed appearance.

*(Adopted April 17, 1991)*

**8-32-213~~08~~ Custom Architectural Millwork:** ~~Those in S~~shop-finished wood products the production of which is generally subject to North American Industry Classification System code 337112, which are intended for use as architectural components including panels, doors and trim ~~and are Custom architectural millwork is~~ individually produced items designed for a specific space and client. Custom trade show exhibits designed for a specific client shall be considered custom architectural millwork.

*(Adopted 4/17/91; Amended 6/19/96)*

**8-32-213~~09~~ Custom Cabinetry:** Shop-finished wood products the production of which is generally subject to North American Industry Classification System code 337110, which are individually produced items designed for a specific space and client.

**8-32-227~~10~~ Custom ~~or Contract~~ Furniture:** ~~Those pieces of~~ Wood furniture designed and produced to order for a specific client as ordered by that client or a professional architect or designer.

*(Adopted June 19, 1996)*

**8-32-22511 Custom Replica Furniture:** Wood fFurniture individually produced for a specific client using methods of construction including materials, joinery and finishes authentic to the period and in keeping with the style of furniture.

*(Adopted April 17, 1991)*

**8-32-2192 Detailing or Touch-up Guns:** Small air spray equipment, including air brushes, that operates at no greater than 5 cfm air flow and no greater than 50 psig air pressure and are is used to coat small products or portions of furniture.

*(Adopted April 17, 1991)*

**8-32-2183 Electrostatic Air Spray:** Equipment used to apply coating by charging atomized particles that are deposited by electrostatic attraction.

*(Adopted April 17, 1991)*

**8-32-22814 Extreme Environmental Conditions:** Any of the following conditions to which a surface-coated wood product may be exposed during its intended use: ~~coating which during intended use is exposed to one or more of the following conditions:~~

~~22814.1~~ Repeated heavy abrasion, mechanical wear, or abrasive agents;

~~22814.2~~ Temperature extremes significantly in excess of normal ambient conditions;

~~22814.3~~ Chronic exposure to corrosive, caustic or acidic chemicals, solutions or agents.

*(Adopted June 19, 1996)*

**8-32-2215 Faux Finish:** A finish intended to simulate a surface other than wood, including stone, sand, slate, marble, metal, metal flake or leather.

*(Adopted April 17, 1991)*

**8-32-2216 Filler:** A material whose primary function is to fill voids.

*(Adopted April 17, 1991)*

**8-32-2127 General Wood Products:** ~~For the purpose of this Rule, general wood products are those~~ Surface coated objects the production of which is ~~which are~~ generally subject to North American Industry Classification System codes 321911, 321918, and 337110, Standard Industrial Classification Major Group 24 including cabinets, vanities, shutters, containers, frames, tools and ladders made of solid wood, wood composition or wood material, but excluding Wood Furniture, Custom Cabinetry, Custom Architectural Millwork and Custom Furniture ~~Custom cabinetry, including vanities, that are individually produced items designed for a specific space and client are not considered general wood products.~~

*(Adopted 4/17/91; Amended 6/19/96)*

**8-32-20518 High-Solids CoatingStains:** ~~A coatingStains which are formulated to enhance wood grain and change wood color, and protect wood surface but not conceal surface grain. For the purpose of this Rule, high solids stains are stains~~ that contains at least 120 grams solids per liter (one pound solids per gallon) of coating. High-Solids Coating VOC content shall be calculated by excluding water and exempt compounds in accordance with Section 8-32-605 or 606.

*(Amended 4/17/91, 6/19/96)*

**8-32-21719 High-Volume, Low-Pressure (HVLP) Spray:** Equipment used to apply coatings by means of a gun that which operates between 0.1 and 10 atomizing psig air pressure.

*(Adopted 4/17/91; Amended 10/6/93)*

**8-32-22420 Imitation Wood Grain:** A hand-applied finish that simulates the appearance of a specific natural wood grain.

*(Adopted April 17, 1991)*

**8-32-2261 Key System Operating Parameter:** An air pollution abatement equipment operating parameter, such as temperature, flow rate or pressure, that indicates whether ensures operation of the abatement equipment is within manufacturer specifications and/or in compliance with the standards in Sections 8-32-302, 303, and 304.

*(Adopted June 15, 1994; Amended June 19, 1996)*

**8-32-22 Leaf Finish:** A finish used in conjunction with metal leaf or foil.

*(Adopted April 17, 1991)*

**8-32-20823 Low-Solids CoatingsStains:** ~~A coatingStains, dyes and toners which are formulated to enhance wood grain and change surface color, but not to conceal surface grain, and include sap stain, toner and non-grain raising stains. For the purpose of this Rule, low solids stains are stains~~ that contains less than 120 grams solids per liter (1 pound solids per gallon) of coating. Low Solids Coating VOC content shall be calculated by including water and exempt compounds in accordance with Section 8-32-604.

**8-32-224 Multi-Colored Coating:** A coating that is packaged in a single container and that is formulated to exhibit more than one color when applied in a single coat.

**8-32-20625 Pigmented Coatings:** Opaque coatings ~~that~~ ~~which~~ contain binders and colored pigments and ~~and~~ ~~which~~ are formulated to hide the wood surface, either as an undercoat or topcoat.

**8-32-226 Pigmented Primer, Sealer, and Undercoater:** An opaque coating that contains binders and colored pigments formulated to hide the wood surface, that is applied prior to the topcoat to provide a firm bond, level the wood product surface, or seal the wood product surface.

**8-32-227 Pigmented Topcoat:** A final opaque coating that contains binders and colored pigments, and is formulated to hide the wood surface and form a solid protective film.

**8-32-2078 Sanding Sealer:** A clear or semi-transparent high-solids wood coating containing binders, formulated for application to bare wood to ~~which~~ seals the wood prior to application of, and provides a sandable surface for, ~~the~~ subsequent coatings.

(Amended April 17, 1991)

**8-32-229 Stain:** A transparent or semitransparent solution or suspension of dyes or pigments formulated to enhance wood grain and change wood color by penetration, without concealing the surface grain pattern or texture.

**8-32-230 Toner:** A wash coat that contains binders and dyes or pigments to add tint to a coated surface.

**8-32-20931 Transfer Efficiency:** The ratio of the weight of coating solids deposited on an object to the total weight of coating solids used in a coating application step, expressed as a percentage.

(Amended April 17, 1991)

**8-32-21432 Volatile Organic Compound (VOC):** Any organic compound (excluding methane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides, ~~or~~ metallic carbonates and ammonium carbonate) ~~that~~ ~~which~~ would be emitted during use, application, curing or drying of a solvent or ~~surface~~ coating.

~~21432.1~~ For purposes of calculating the VOC content of a high solids coating ~~subject to subsections 8-32-302.1, 303.1 and 304.1~~, any water or the following compounds:

acetone

parachlorobenzotrifluoride (PCBTF)

cyclic, branched or linear, completely methylated siloxanes (VMS)

shall not be considered a part of the coating. High solids coating VOC content is calculated as specified in 8-32-605 or 606.

~~21432.2~~ For purposes of calculating the VOC content of a low solids coating or solvent ~~subject to subsections 8-32-302.2, 303.2 and 304.2~~, any water or any of the non-precursor organic compounds listed in section 8-32-232.1, shall be considered a part of the volume, but shall not be considered part of the VOC content of the coating or solvent. Low solids coating VOC content is calculated as specified in 8-32-604. ~~The following compounds:~~

~~acetone~~

~~parachlorobenzotrifluoride (PCBTF)~~

~~cyclic, branched or linear, completely methylated siloxanes (VMS)~~

~~shall be considered part of the volume of the coating or solvent but shall not be considered part of the VOC content of the coating or solvent.~~

(Adopted 4/17/91; Amended 12/20/95, 6/19/96)

**8-32-21033 Wash Coat:** A low-solids coating, containing binders, ~~that~~ ~~which~~ penetrates into and seals wood, prevents undesired staining and seals in wood pitch. ~~For the purpose of this Rule, washcoats shall be considered low-solids coatings and shall contain less than 120 grams solids per liter (1 pound solids per gallon) of coating. Wash coats with greater than 120 grams solids per liter (1 pound solids per gallon) of coating shall be considered sanding sealers.~~

(Amended April 17, 1991)

**8-32-2134 Wood Furniture:** ~~These~~ ~~Surface-~~coated room furnishings the production of which is generally which are subject to North American Industry Classification System codes 337121, 337122, 337129, 337211, 337212, and 337215, Standard Industrial Classification Major Group 25 including tables, chairs, beds, sofas, dressers and standing screens, made of solid wood, wood composition or wood material.

(Amended April 17, 1991)

**08-32-300 STANDARDS**

**8-32-301 Spray Application Equipment Limitations:** Any person who utilizes spray application equipment to apply coatings to wood products, ~~furniture and cabinets~~ shall use one or more of the following application methods:

- Airless spray
- Air assisted airless spray
- High Volume Low Pressure (HVLP) spray
- Electrostatic air spray
- Detailing or Touch-up Guns

(Amended April 17, 1991)

**8-32-302 General Wood Product Limits:** ~~No~~A person shall ~~not~~ apply to any general wood product, any coating with a VOC content in excess of the ~~following~~ limits set forth below; expressed as grams VOC per liter (pounds VOC per gallon) of coating or grams VOC per gram of solids, as applied (after thinning), unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with an abatement device efficiency of at least 85 percent that meets the requirements of Regulation 2, Rule 1.

~~302.1 High Solids Coatings:~~

|                                                         | <del>Effective</del><br>July 1, 1992 | Effective<br>July 1, 1995        | <u>Effective</u><br>July 1, 2010 |                                |
|---------------------------------------------------------|--------------------------------------|----------------------------------|----------------------------------|--------------------------------|
|                                                         |                                      | <u>VOC limit</u><br>g/l (lb/gal) | <u>VOC limit</u><br>g/l (lb/gal) | <u>VOC limit</u><br>g/g solids |
| <u>Clear Sealer</u>                                     |                                      |                                  | <u>275 (2.3)</u>                 | <u>0.36</u>                    |
| Clear Topcoat                                           | <del>550 (4.6)</del>                 | 275 (2.3)                        | <u>275 (2.3)</u>                 | <u>0.35</u>                    |
| <u>Conversion Varnish</u>                               |                                      |                                  | <u>275 (2.3)</u>                 | <u>0.60</u>                    |
| Sanding Sealer                                          | <del>550 (4.6)</del>                 | 550 (4.6)                        | -                                | -                              |
| Pigmented Coating                                       | <del>600 (5.0)</del>                 | 275 (2.3)                        | -                                | -                              |
| <u>Pigmented Primer,<br/>Sealer and<br/>Undercoater</u> |                                      |                                  | <u>275 (2.3)</u>                 | <u>0.21</u>                    |
| <u>Pigmented Topcoat</u>                                |                                      |                                  | <u>275 (2.3)</u>                 | <u>0.25</u>                    |
| High Solids Stain                                       | <del>700 (5.8)</del>                 | 700 (5.8)                        | <u>350 (2.9)</u>                 | <u>0.42</u>                    |
| Filler                                                  | <del>500 (4.2)</del>                 | 500 (4.2)                        | <u>275 (2.3)</u>                 | <u>0.18</u>                    |
| <u>Low Solids Stain*</u>                                |                                      | <u>480 (4.0)</u>                 | <u>120 (1.0)</u>                 | -                              |
| <u>Low Solids Toner<br/>and Wash-coat*</u>              |                                      | <u>480 (4.0)</u>                 | <u>120 (1.0)</u>                 | -                              |

\*Low-Solids Coatings VOC content is calculated including water and exempt compounds as set forth in Section 8-32-604. High-Solids Coatings VOC content is calculated excluding water and exempt compounds as set forth in Sections 8-32-605 and 8-32-606.

A person applying a coating subject to the standards effective July 1, 2010 will comply with this Section if the coating satisfies either of the alternative standards. Application of a

coating exceeding one of the alternative standards applicable to that coating shall create a rebuttable presumption that the coating was applied in violation of this Section. The applicator may rebut the presumption of violation by demonstrating that the coating satisfies the other alternative standard.

~~302.2—Low Solids Coatings:~~

|                             | <del>Effective-<br/>July 1, 1992</del> | <del>Effective-<br/>July 1, 1995</del> |
|-----------------------------|----------------------------------------|----------------------------------------|
| <del>Low Solids Stain</del> | <del>480 (4.0)</del>                   | <del>480 (4.0)</del>                   |
| <del>Wash-coat</del>        | <del>480 (4.0)</del>                   | <del>480 (4.0)</del>                   |

*(Deleted 4/17/91; Re-adopted 6/19/96)*

**8-32-303** Wood Furniture, Custom Cabinetry and Custom Architectural Millwork Limits: NoA person shall ~~not~~ apply to any wood furniture, custom cabinetry or custom architectural millwork, any coating with a VOC content in excess of the ~~following~~ limits set forth below; expressed as grams VOC per liter (pounds VOC per gallon) of coating or grams VOC per gram of solids, as applied (after thinning), unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with an abatement device efficiency of at least 85 percent that meets the requirements of Regulation 2, Rule 1.

~~303.1—High Solids Coatings:~~

|                                                                                | <del>Effective<br/>July 1, 1992</del> | Effective<br>Sept 1,<br>1996      | <u>Effective<br/>July 1, 2010</u> |                                 |
|--------------------------------------------------------------------------------|---------------------------------------|-----------------------------------|-----------------------------------|---------------------------------|
|                                                                                |                                       | <u>VOC Limit<br/>g/l (lb/gal)</u> | <u>VOC Limit<br/>g/l (lb/gal)</u> | <u>VOC Limit<br/>g/g solids</u> |
| <u>Clear Sealer</u>                                                            |                                       |                                   | <u>275 (2.3)</u>                  | <u>0.36</u>                     |
| Clear Topcoat                                                                  | <del>550 (4.6)</del>                  | 550 (4.6)                         | <u>275 (2.3)</u>                  | <u>0.35</u>                     |
| <u>Conversion Varnish (when<br/>used as a combined<br/>sealer and topcoat)</u> |                                       |                                   | <u>550 (4.6)</u>                  | <u>1.20</u>                     |
| Sanding Sealer                                                                 | <del>550 (4.6)</del>                  | 550 (4.6)                         | :                                 | :                               |
| Pigmented Coating                                                              | <del>600 (5.0)</del>                  | 550 (4.6)                         | :                                 | :                               |
| <u>Pigmented Primer, Sealer<br/>and Undercoat</u>                              |                                       |                                   | <u>275 (2.3)</u>                  | <u>0.21</u>                     |
| <u>Pigmented Topcoat</u>                                                       |                                       |                                   | <u>275 (2.3)</u>                  | <u>0.25</u>                     |
| <u>Multi-colored Coating</u>                                                   |                                       |                                   | <u>275 (2.3)</u>                  | <u>0.33</u>                     |
| High Solids Stain                                                              | <del>700 (5.8)</del>                  | 700 (5.8)                         | <u>350 (2.9)</u>                  | <u>0.42</u>                     |
| Filler                                                                         | <del>500 (4.2)</del>                  | 500 (4.2)                         | <u>275 (2.3)</u>                  | <u>0.18</u>                     |
| <u>Low Solids Stain*</u>                                                       |                                       | 480 (4.0)                         | <u>120 (1.0)</u>                  | :                               |
| <u>Toner and Wash-coat*</u>                                                    |                                       | 480 (4.0)                         | <u>120 (1.0)</u>                  | :                               |

\*Low-Solids Coatings VOC content is calculated including water and exempt compounds as set forth in Section 8-32-604. High-Solids Coatings VOC content is calculated excluding water and exempt compounds as set forth in Sections 8-32-605 and 8-32-606.

A person applying a coating subject to the standards effective July 1, 2010 will comply with this Section if the coating satisfies either of the alternative standards. Application of a coating exceeding one of the alternative standards applicable to that coating shall create a



rebuttable presumption that the coating was applied in violation of this Section. The applicator may rebut the presumption of violation by demonstrating that the coating satisfies the other alternative standard.

~~303.2—Low Solids Coatings:~~

|                             | <del>Effective<br/>July 1, 1992</del> | <del>Effective<br/>Sept 1, 1996</del> |
|-----------------------------|---------------------------------------|---------------------------------------|
| <del>Low Solids Stain</del> | <del>480 (4.0)</del>                  | <del>480 (4.0)</del>                  |
| <del>Wash-coat</del>        | <del>480 (4.0)</del>                  | <del>480 (4.0)</del>                  |

*(Adopted 4/17/91; Amended 10/6/93, 7/6/94, 6/19/96)*

**8-32-304 Custom ~~and Contract~~ Furniture Limits:** ~~No~~A person shall ~~not~~ apply to any custom ~~or contract~~ furniture any coating with a VOC content in excess of the ~~following~~ limits set forth below; expressed as grams VOC per liter (pounds VOC per gallon) of coating or grams VOC per gram of solids, as applied (after thinning), unless emissions to the atmosphere are controlled to an equivalent level by air pollution abatement equipment with an abatement device efficiency of at least 85 percent that meets the requirements of Regulation 2, Rule 1.

~~304.1—High Solids Coatings:~~

|                                                       | <del>Effective<br/>July 1, 1992</del> | Effective<br>July 1, 1997         | <u>Effective<br/>July 1, 2010</u> |                                 |
|-------------------------------------------------------|---------------------------------------|-----------------------------------|-----------------------------------|---------------------------------|
|                                                       |                                       | <u>VOC Limit<br/>g/l (lb/gal)</u> | <u>VOC Limit<br/>g/l (lb/gal)</u> | <u>VOC Limit<br/>g/g solids</u> |
| <u>Clear Sealer</u>                                   |                                       |                                   | <u>275 (2.3)</u>                  | <u>0.36</u>                     |
| Clear Topcoat                                         | <del>700 (5.8)</del>                  | 550 (4.6)                         | <u>550 (4.6)</u>                  | <u>0.70</u>                     |
| <u>Conversion Varnish</u>                             |                                       |                                   | <u>550 (4.6)</u>                  | <u>1.20</u>                     |
| Sanding Sealer                                        | <del>700 (5.8)</del>                  | 550 (4.6)                         | -                                 | -                               |
| Pigmented Coating                                     | <del>600 (5.0)</del>                  | 550 (4.6)                         | -                                 | -                               |
| <u>Pigmented Primer,<br/>Sealer and<br/>Undercoat</u> |                                       |                                   | <u>275 (2.3)</u>                  | <u>0.21</u>                     |
| <u>Pigmented Topcoat</u>                              |                                       |                                   | <u>275 (2.3)</u>                  | <u>0.25</u>                     |
| <u>Multi-colored<br/>Coating</u>                      |                                       |                                   | <u>275 (2.3)</u>                  | <u>0.33</u>                     |
| High Solids Stain                                     | <del>700 (5.8)</del>                  | 700 (5.8)                         | <u>350 (2.9)</u>                  | <u>0.42</u>                     |
| Filler                                                | <del>500 (4.2)</del>                  | 500 (4.2)                         | <u>275 (2.3)</u>                  | <u>0.18</u>                     |
| <u>Low Solids Stain*</u>                              |                                       | 480 (4.0)                         | <u>120 (1.0)</u>                  | -                               |
| <u>Toner and<br/>Wash-coat*</u>                       |                                       | 480 (4.0)                         | <u>120 (1.0)</u>                  | -                               |

\*Low-Solids Coatings VOC content is calculated including water and exempt compounds as set forth in Section 8-32-604. High-Solids Coatings VOC content is calculated excluding water and exempt compounds as set forth in Sections 8-32-605 and 8-32-606.

A person applying a coating subject to the standards effective July 1, 2010 will comply with this Section if the coating satisfies either of the alternative standards. Application of a coating exceeding one of the alternative standards applicable to that coating shall create a rebuttable presumption that the coating was applied in violation of this Section. The

applicator may rebut the presumption of violation by demonstrating that the coating satisfies the other alternative standard.

~~304.2—Low Solids Coatings VOC Limits:~~

|                  | Effective<br>July 1, 1992 | Effective<br>Sept 1, 1996 |
|------------------|---------------------------|---------------------------|
| Low Solids Stain | 800 (6.7)                 | 480 (4.0)                 |
| Wash-coat        | 800 (6.7)                 | 480 (4.0)                 |

*(Adopted 4/17/91; Amended 10/6/93; 7/6/94, 6/19/96)*

**8-32-305 Prohibition of Specification:** No person shall require ~~for the use of~~ or specify the application of a coating subject to this Rule if such use or application results in a violation of any of the provisions of this Rule. The prohibition of this Section shall apply to all written or oral contracts under the terms of which any coating is to be applied to any wood product, ~~furniture or cabinet~~ at any physical location within the District.

*(Adopted April 17, 1991)*

*(Amended November 2, 1994)*

~~8-32-306—Compliance Statement Requirement:~~

~~Effective August 1, 1991, the manufacturer of coatings subject to this Rule shall provide on the coating container or as an accompanying specification a designation of VOC content (as defined in Section 8-32-214) expressed in grams per liter or pounds per gallon of coating, and expressed as grams VOC per gram solid or pounds VOC per pound solid.~~

*(Adopted 4/17/91; Amended 6/19/96)*

**8-32-307 Alternate Compliance, Section 8-32-302, 303 and 304:** ~~In lieu of compliance with~~ Upon written authorization as provided for in Section 8-32-404, a person may establish compliance with Section 8-32-302, 303 or 304, and provided a person is in receipt of the written authorization provided for in Section 8-32-404, compliance with the VOC limits may be achieved by averaging the VOC emissions of any or all coatings and solvent usage related directly to the coating of wood products. Compliance may be demonstrated by averaging coatings used over for multiple day periods on a rolling basis for a period of no greater than thirty days. Facilities that emit more than 25 tons VOC per year from wood products coatings must limit VOC emissions, when averaged, to 10% less than the VOC emissions of compliant coatings. The procedure for averaging coatings to determine compliance with this provision is specified in 8-32-603.

307.1 Any emissions reductions shall not be used as credit pursuant to Regulation 2, Rule 4 or as contemporaneous offsets pursuant to Regulation 2, Rule 2.

307.2 No emissions reductions shall be credited for organic compounds that are adopted as compounds exempt from the Determination of VOC Content as calculated in Section 8-32-604 or 605 if those compounds are present in the coatings or solvents used at the facility prior to the date the compound becomes exempt.

*(Adopted June 19, 1996)*

**8-32-320 Solvent Evaporative Loss Minimization:** ~~The requirements of this Section shall apply to a~~ Unless emissions to the atmosphere are controlled by an approved emission control system with an overall abatement efficiency of at least 85%, any person using organic solvent for surface preparation and/or cleanup in connection with coating of wood products, and or to any person mixing, using or disposing of coating, adhesive or stripper containing organic solvent in connection with coating of wood products shall comply with the following requirements:

320.1 ~~The~~A person shall use closed containers for the storage or disposal of cloth or paper used for solvent surface preparation and cleanup.

320.2 ~~The~~A person shall store fresh or spent solvent in closed containers.

- 320.3 ~~The~~A person shall not use organic compounds for the cleanup of mixing, or storage ~~or spray~~ equipment unless equipment for collecting the cleaning compounds and minimizing their evaporation to the atmosphere is used.
- 320.4 The person shall not use organic solvent for the cleanup of spray equipment, including coating lines, with a VOC content in excess of 50 g/l (0.42 lb/gal) unless either  
(i) the solvent is pressurized through spray equipment with atomizing air off or dispensed from a small non-atomizing container, and collected and stored in a closed container until recycled or properly disposed of offsite, or  
(ii) a spray gun washer subject to and in compliance with the requirements of Regulation 8, Rule 16 is used.
- 320.45 ~~The~~A person shall not leave containers of stripper, coating, adhesive, catalyst, solvent or thinner open to the atmosphere when not in use.

*(Adopted April 17, 1991)*

## **8-32-400 ADMINISTRATIVE REQUIREMENTS**

**8-32-401 Deleted April 17, 1991**

**8-32-402 Deleted June 19, 1996**

**8-32-403 Extreme Environmental Conditions Petition:** A person seeking an exemption pursuant to Section 8-32-119 shall comply with the following requirements:

- 403.1 ~~The~~A person ~~petition~~ shall submit a petition ~~be submitted~~ to the APCO containing the following information, as applicable: environmental conditions and coating performance requirements, volume of coating, and maximum VOC level necessary.
- 403.2 If the APCO finds, based on the petition, that there is good reason to grant an exemption pursuant to Section 8-32-119, the APCO shall grants written approval for an exemption of a period of up to two years. The APCO may impose appropriate conditions on the approval, including limits on the amount and VOC content of coatings that may be used under the exemption, ~~such petition shall be repeated on an annual basis.~~
- 403.3 Upon receipt of written approval from the APCO, the person may use coatings that do not comply with the standards of Section 8-32-302, provided that the coatings comply with the standards of Section 8-32-304. The person must comply with all conditions of approval, and maintain records as required by Section 8-32-501. ~~If the APCO grants written approval, such approval shall contain VOC and volume limit conditions.~~
- 403.4 The person may renew the petition subject to approval by the APCO. ~~Records must be maintained as per Section 501.~~

*(Adopted June 19, 1996)*

**8-32-404 Alternate Compliance Petition And Approval:** Any person ~~electing~~ seeking to comply with this Rule pursuant to the averaging provisions of Section 8-32-307 shall submit to the APCO a petition containing information regarding all coatings and solvents to be included in the alternate compliance formula. Such information shall include the VOC content in grams (or pounds) per liter (or gallon), and in grams (or pounds) per gram (or pound) coating solid for high-solids coatings, the VOC content in grams (or pounds) per liter (or gallon) of coating for low-solids coatings and solvents, the expected quantity of each coating or solvent to be used, ~~and~~ a description of the products or coating line for which the approval is sought, and estimated future annual VOC emissions for the facility. The APCO shall evaluate each petition submitted and will respond to each petition that meets the criteria of Section 8-32-307 with written approval. A petitioner is subject to the limits contained in Section 8-32-302, 303 or 304 until receipt of the written approval. Any change in operations from what is described in the petition terminates approval of the petition. A new petition submittal and written approval are required to continue to be eligible for the alternative compliance provisions of Section 8-32-307. ~~plan is subject to the following conditions:~~

- ~~404.1 Any emissions reductions credited to this plan must not be the result of emissions reduced due to violation of any District rule, or to achieve compliance with a~~

~~provision of this rule at the effective date of that provision. Reductions achieved prior to the effective date of any standards in this rule may be used until the effective date.~~

~~404.2 Any emissions reductions shall not be used as credit pursuant to Regulation 2, Rule 4 or as contemporaneous offsets pursuant to Regulation 2, Rule 2.~~

~~404.3 No emissions reductions shall be credited for organic compounds that are adopted as compounds exempt from the definition of VOC found in Section 8-32-214 if those compounds are present in the coatings or solvents used at the facility prior to the date the compound becomes exempt.~~

*(Adopted June 19, 1996)*

**8-32-405 Low VOC Facility Certification:** In order to qualify for the recordkeeping exemption in Section 8-32-120, the owner or operator of a facility shall certify in writing to the APCO that all coatings comply with the provisions of Section 8-32-120. Such certification shall be provided annually, and if the facility is required to obtain a renewed permit on an annual basis, the certification shall be provided concurrent with permit renewal.

*(Adopted June 19, 1996)*

**8-32-406 VOC Labeling Requirements:** Effective July 1, 2010, the manufacturer, re-packager or retailer of any wood coating, or organic solvent used for thinning, surface preparation or clean up subject to this Rule that is manufactured on or after July 1, 2010 shall identify on the container the VOC content for the coating or solvent expressed in grams per liter (or pounds per gallon) , as calculated in Section 8-32-604 or 605.

*(Adopted December 3, 2008)*

**8-32-407 Compliance Statement Requirement:** Effective July 1, 2010, any manufacturer, re-packager or retailer of any wood coating, or organic solvent used for thinning, surface preparation or clean up used by wood products coating facilities subject to this Rule shall provide to users on product data sheets or an equivalent medium, the following information:

407.1 The VOC content of the coating and solvent in grams per liter (or pounds per gallon), as calculated in Section 8-32-604, or 605;

407.2 For high solids coatings, the VOC content of the coating in grams per gram (or pounds per pound), as calculated in Section 8-32-606;

407.3 Any thinning recommendations for a coating, and the VOC content of the coating after thinning in grams per liter (or pounds per gallon) as calculated in Section 8-32-604 or 605, and for high-solids coatings the VOC content of the coating after thinning in grams per gram (or pounds per pound) as calculated in Section 8-32-606.

## **8-32-500 MONITORING AND RECORDS**

**8-32-501 Recordkeeping Requirements:** Any person subject to Section 8-32-302, 303, 304, or 307 shall:

501.1 Maintain a current list of coatings in use which provides all of the data necessary to evaluate compliance, including the following information, as applicable:

- a. coating, catalyst, ~~or~~ reducer, or other thinner or solvent used
- b. manufacturer's recommended ~~mix~~-ratio of components
- c. VOC content of coating as applied after any thinning
- d. solids content of each high solids coating as applied after any thinning
- e. thinner or solvent used for cleaning or surface preparation

501.2 Record the following information on a daily basis, as applicable:

- a. coating and mix ratio of components in the coating used
- b. quantity of each coating applied
- c. identification of coating category
- d. type and amount of solvent used for cleanup and surface preparation
- e. emissions averaging calculations if using the alternate compliance option provided in 8-32-307.

501.3 Record air pollution abatement equipment key operating parameters on a daily basis where such equipment is installed to meet the requirements of Sections 8-32-302, 303, and 304.

501.4 Retain the records required by sections 501.2 and 501.3 for a period of 24 months and make them available for inspection by the APCO upon request~~Records shall be retained and available for inspection by the APCO upon request for the previous 24-month period.~~

*(Adopted 4/17/91; Amended 6/15/94, 6/19/96)*

**8-32-502 Refinishing, Replacement and Custom Replica Furniture Operations Recordkeeping Requirements:** Any person refinishing wood products ~~or furniture~~, replacing missing furniture or producing custom replica furniture shall:

502.1 Maintain a current list of coatings in use which provides the following information, as applicable:

- a. coating, catalyst, ~~or reducer~~, or other components used
- b. manufacturer's recommended mix ratio of components
- c. VOC content and solids content of coating or reducer as applied after any thinning recommended by the manufacturer

502.2 Record on a monthly basis the following information, as applicable:

- a. amount of coating, catalyst, ~~and reducer~~, or other components used
- b. type and amount of solvent used for cleanup and surface preparation
- c. type and amount of stripper used

502.3 Retain the records required by sections 502.1 and 502.2 for a period of 24 months and make them available for inspection by the APCO upon request~~Records shall be retained and available for inspection by the APCO upon request for the previous 24-month period.~~

*(Adopted 4/17/91; Amended 6/15/94)*

**8-32-503 Custom Furniture, Custom Architectural Millwork and Custom Cabinetry Recordkeeping Requirements:** In addition to the requirements of Section 8-32-501, any person producing custom furniture, custom architectural millwork and/or custom cabinetry shall maintain and make available for inspection by the APCO job orders, shop drawings or blueprints, or designer or architectural drawings as necessary to establish the custom nature of the work.

*(Adopted 4/17/91; Amended 6/19/96)*

**8-32-600 MANUAL OF PROCEDURES**

**8-32-601 Analysis of Samples:** For purposes of this Rule, Samples of VOC content of high-solids coatings shall be determined as specified in subsections 8-32-302.1, 303.1 or 304.1 shall be analyzed as prescribed in the Manual of Procedures, Volume III, Method 21 or 22. ~~Samples of VOC content of low-solids coatings shall be determined as specified in subsections 8-32-302.2, 303.2 or 304.2 shall be analyzed~~ as prescribed in the Manual of Procedures, Volume III, Method 31. Samples VOC content of coatings containing parachlorobenzotrifluoride shall be determined analyzed as prescribed in the Manual of Procedures, Volume III, Method 41. For speciation of coating components, use MOP, Volume III, Method 46 and/or ARB Method 310.

*(Amended 4/17/91, 6/19/96)*

**8-32-602 Determination of Emissions Control Efficiency:**~~Emissions of volatile organic compounds as specified in Sections 8-32-302, 303 or 304 shall be measured as prescribed by any of the following methods: 1) BAAQMD Manual of Procedures, Volume IV, ST-7, 2) EPA Method 25 or 25A. When either EPA Method 25 or 25A is used, control device equivalency shall be determined as prescribed in 55 FR 26865 (June 29, 1990). For the purpose of determining abatement device efficiency, any acetone, PCBTF or VMS shall be included as Volatile Organic Compounds. A source shall be considered in violation if the VOC emissions measured by any of the referenced test methods exceed the standards of this rule.~~ Emissions control efficiency of volatile organic compounds from source operations controlled by an emission control system shall be determined as follows:

602.1 Capture efficiency shall be determined as specified in 40 CFR 51, Appendix M, Test Methods 204 – 204F, as applicable.

602.2 Control device destruction efficiency shall be determined as specified in the Manual of Procedures, Volume IV, ST-7 or EPA Method 25 or 25A.

602.3 For the determination of control device destruction efficiency, any non-precursor organic compound specified in Section 8-32-232 shall be included as a volatile organic compound.

602.4 The overall efficiency of an emissions control system, expressed as a percentage, shall be calculated according to the following equation:

$$OE = [CE \times DE]$$

Where:

OE = Overall efficiency

CE = Capture efficiency

DE = Control device destruction efficiency

602.5 A source shall be considered in violation if the VOC emissions exceed the standards of this rule as measured by any of the reference test methods.

*(Adopted 4/17/91; Amended 6/15/94, 6/19/96)*

**8-32-603 Emissions Averaging Procedure:** The procedure for averaging VOC emissions of coatings to determine compliance with Section 8-32-307 and sample calculations may be found in the Manual of Procedures, Volume I, Section 6.

*(Amended June 19, 1996)*

**8-32-604: Calculation of Grams of VOC per liter for Low Solids Coatings:** The VOC content of Low-Solids Coatings shall be calculated using the following equation:

$$VOC = \frac{W_s - W_w - W_{es}}{V_m}$$

Where:

W<sub>s</sub> = Weight of volatile compounds (including water) in grams (or pounds).

W<sub>w</sub> = Weight of water in grams (or pounds).

W<sub>es</sub> = Weight of exempt compounds in grams (or pounds).

V<sub>m</sub> = Volume of material in liters (or gallons).

**8-32-605: Calculation of Grams of VOC per liter for High Solids Coatings:** The VOC content of High-Solids Coatings shall be calculated using the following equation:

$$VOC = \frac{W_s - W_w - W_{es}}{V_m - V_w - V_{es}}$$

Where:

W<sub>s</sub> = Weight of volatile compounds (including water) in grams (or pounds).

W<sub>w</sub> = Weight of water in grams (or pounds).

W<sub>es</sub> = Weight of exempt compounds in grams (or pounds).

V<sub>m</sub> = Volume of material in liters (or gallons).

V<sub>w</sub> = Volume of water in liters (or gallons).

V<sub>es</sub> = Volume of exempt compounds in liters (or gallons).

**8-32-606: Calculation of Grams of VOC per gram of solids for High Solids Coatings:** The VOC content of High-Solids Coatings (grams per gram) shall be calculated using the following equation:

$$VOC = \frac{W_s - W_w - W_{es}}{W_r}$$

Where:

W<sub>s</sub> = Weight of volatile compounds (including water) in grams (or pounds).

W<sub>w</sub> = Weight of water in grams (or pounds).

W<sub>es</sub> = Weight of exempt compounds in grams (or pounds).

W<sub>r</sub> = Weight of coating solids in grams (or pounds).