

TABLE 806.1.1
MAXIMUM CONCENTRATION OF AIR POLLUTANTS

MAXIMUM CONCENTRATION OF AIR POLLUTANTS RELEVANT TO IAQ	MAXIMUM CONCENTRATION, $\mu\text{g}/\text{m}^3$ (unless otherwise noted)
1-Methyl-2-pyrrolidinone ^a	160
1,1,1-Trichloroethane	1000
1,3-Butadiene	20
1,4-Dichlorobenzene	800
1,4-Dioxane	3000
2-Ethylhexanoic acid ^a	25
2-Propanol	7000
4-Phenylcyclohexene (4-PCH) ^a	2.5
Acetaldehyde	140
Acrylonitrile	5
Benzene	60
t-Butyl methyl ether	8000
Caprolactam ^a	100
Carbon disulfide	800
Carbon monoxide	9 ppm and no greater than 2 ppm above outdoor levels
Carbon tetrachloride	40
Chlorobenzene	1000
Chloroform	300
Dichloromethane	400
Ethylbenzene	2000
Ethylene glycol	400
Formaldehyde	27
n-Hexane	7000
Naphthalene	9
Nonanal ^a	13
Octanal ^a	7.2
Particulates (PM 2.5)	35 (24-hr)
Particulates (PM 10)	150 (24-hr)
Phenol	200
Styrene	900
Tetrachloroethene	35
Toluene	300
Total volatile organic compounds (TVOC)	500
Trichloroethene	600
Xylene isomers	700

a. This chemical has a limit only where carpets and fabrics with styrene butadiene rubber (SBR) latex backing material are installed as part of the base building systems.

806.1.2 Emissions from composite wood products. Composite wood products used interior to the *approved* weather covering of the building shall comply with the

emission limits cited in Table 806.1.2. Compliance with emission limits shall be demonstrated following the requirements of Section 93120 of Title 17, *California Code of Regulations*.

Exceptions:

1. Composite wood products that are made using adhesives that do not contain urea-formaldehyde (UF) resins.
2. Composite wood products that are sealed with an impermeable material on all sides and edges.
3. Composite wood products that are used to make elements considered to be furniture, fixtures and equipment (FF&E) that are not permanently installed.

TABLE 806.1.2
COMPOSITE PRODUCTS EMISSIONS

PRODUCT	FORMALDEHYDE LIMIT ^a (ppm)
Hardwood plywood	0.05
Particle board	0.09
Medium-density fiberboard	0.11
Thin medium-density fiberboard ^a	0.13

For SI: 1 inch = 25.4 mm.

a. Maximum thickness of $5/16$ inch (8 mm).

b. Phase 2 Formaldehyde Emissions Standards, Table 1, Section 93120, Title 17, *California Code of Regulations*; compliance shall be demonstrated in accordance with ASTM D6007 or ASTM E1333.

806.1.3 Adhesives and sealants. A minimum of 85 percent by weight or volume, of specific categories of site-applied adhesives and sealants used on the interior side of the building envelope, shall comply with the VOC content limits in Table 806.1.3(1) or alternative VOC emission limits in Table 806.1.3(2). The VOC content shall be determined in accordance with the appropriate standard being either U.S. EPA Method 24 or SCAQMD Method 304, 316A or 316B. The exempt compound content shall be determined by either SCAQMD Methods 302 and 303 or ASTM D3960. Table 806.1.3(1) adhesives and sealants regulatory category and VOC content compliance determination shall conform to the SCAQMD Rule 1168. The provisions of this section shall not apply to adhesives and sealants subject to state or federal consumer product VOC regulations. HVAC duct sealants shall be classified as "Other" category within the SCAQMD Rule 1168 sealants table.

Exception: HVAC air duct sealants are not required to meet the emissions or the VOC content requirements when the air temperature in which they are applied is less than 40°F (4.5°C).

Table 806.1.3(2) adhesive alternative emissions standards compliance shall be determined utilizing test methodology incorporated by reference in the CDPH/EHLB/Standard Method V.1.1. The alternative emissions testing shall be performed by a laboratory that has the CDPH/EHLB/Standard Method V.1.1 test methodology in the scope of its ISO 17025 Accreditation.

TABLE 806.1.3(1)
SITE-APPLIED ADHESIVE AND SEALANT VOC LIMITS

ADHESIVE	VOC LIMIT ^{a, b}
Indoor carpet adhesives	50
Carpet pad adhesives	50
Outdoor carpet adhesives	150
Wood flooring adhesive	100
Rubber floor adhesives	60
Subfloor adhesives	50
Ceramic tile adhesives	65
VCT and asphalt tile adhesives	50
Dry wall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Architectural sealants	250
Architectural sealant primer	
Nonporous	250
Porous	775
Modified bituminous sealant primer	500
Other sealant primers	750
CPVC solvent cement	490
PVC solvent cement	510
ABS solvent cement	325
Plastic cement welding	250
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140

a. VOC limit less water and less exempt compounds in grams/liter.

b. For low-solid adhesives and sealants, the VOC limit is expressed in grams/liter of material as specified in SCAQMD Rule 1168. For all other adhesives and sealants, the VOC limits are expressed as grams of VOC per liter of adhesive or sealant less water and less exempt compounds as specified in SCAQMD Rule 1168.

TABLE 806.1.3(2)
VOC EMISSION LIMITS

VOC	LIMIT
Individual VOCs	$\leq \frac{1}{2}$ CA chronic REL ^a
Formaldehyde	$\leq 16.5 \mu\text{g}/\text{m}^3$ or $\leq 13.5 \text{ ppb}$ ^{b, c}

a. CDPH/EHLB/Standard Method V.1.1 Chronic Reference Exposure Level (CREL).

b. Effective January 1, 2012, limit became less than or equal to the CDPH/EHLB/Standard Method V.1.1 CREL ($\leq 9 \mu\text{g}/\text{m}^3$ or $\leq 7 \text{ ppb}$).

c. Formaldehyde emission levels need not be reported for materials where formaldehyde is not added by the manufacturer of the material.

806.1.4 Architectural paints and coatings. A minimum of 85 percent by weight or volume, of site-applied interior architectural coatings shall comply with VOC content limits in Table 806.1.4(1) or the alternate emissions limits in Table 806.1.4(2). The exempt compound content shall be determined by ASTM D3960.

TABLE 806.1.4(1)
VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS^{c, d, e}

CATEGORY	Effective: January 1, 2010	Effective: January 1, 2012
	LIMIT ^a g/l	LIMIT ^a g/l
Flat coatings	50	—
Nonflat coatings	100	—
Nonflat – High-gloss coatings	150	—
Specialty coatings:		
Aluminum roof coatings	400	—
Basement specialty coatings	400	—
Bituminous roof coatings	50	—
Bituminous roof primers	350	—
Bond breakers	350	—
Concrete curing compounds	350	—
Concrete/masonry sealers	100	—
Driveway sealers	50	—
Dry fog coatings	150	—
Faux finishing coatings	350	—
Fire-resistive coatings	350	—
Floor coatings	100	—
Form-release compounds	250	—
Graphic arts coatings (Sign paints)	500	—
High-temperature coatings	420	—
Industrial maintenance coatings	250	—
Low solids coatings	120 ^b	—
Magnesite cement coatings	450	—
Mastic texture coatings	100	—
Metallic pigmented coatings	500	—
Multi-color coatings	250	—
Pretreatment wash primers	420	—
Primers, sealers, and undercoaters	100	—
Reactive penetrating sealers	350	—
Recycled coatings	250	—
Roof coatings	50	—
Rust-preventative coatings	400	250
Shellacs, clear	730	—
Shellacs, opaque	550	—
Specialty primers, sealers, and undercoaters	350	100
Stains	250	—
Stone consolidants	450	—
Swimming pool coatings	340	—
Traffic marking coatings	100	—
Tub and tile refinish coatings	420	—
Waterproofing membranes	250	—
Wood coatings	275	—
Wood preservatives	350	—
Zinc-rich primers	340	—

a. Limits are expressed as VOC Regulatory (except as noted), thinned to the manufacturer's maximum thinning recommendation, excluding any colorant added to tint bases.

b. Limit is expressed as VOC actual.

c. The specified limits remain in effect unless revised limits are listed in subsequent columns in the table.

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