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VOC AND FORMALDEHYDE LIMITS

2022 California Green Building Code

VOC CONTENT LIMITS FOR ARCHITECTURAL COATINGS 2,3 Grams of VOC per Liter of Coating, Less Water and Less Exempt Compounds

COATING CATEGORY 2,3 CURRENT LIMIT Flat coatings 50 Nonflat coatings 50 Nonflat-high gloss coatings 50 Specialty Coatings 100 Aluminum roof coatings Basement specialty coatings 400 Bituminous roof coatings 50 350 Bituminous roof primers 350 Bond breakers Concrete curing compounds 100 Concrete curing compounds, Roadways & 350 100 Concrete/masonry sealers Driveway sealers 50 Dry fog coatings 50 Faux finishing coatings Clear Top Coat 100 **Decorative Coatings** 350 Glazes 350 350 Japan **Trowel Applied Coatings** 50 Fire resistive coatings 150 Floor coatings 50 Form-release compounds 100 Graphic arts coatings (sign paints) 200 420 High temperature coatings Industrial maintenance coatings 100 Low solids coatings1 120 Magnesite cement coatings 450 Mastic texture coatings 100 Metallic pigmented coatings 150 250 Multicolor coatings Pretreatment wash primers 420 Primers, sealers, and undercoaters 100 Reactive penetrating sealers 350 250 Recycled coatings Roof coatings 50 Roof coatings, aluminum 100 Rust preventative coatings 100 Shellacs Clear 730 Opaque 550 Specialty primers, sealers and undercoaters 100 100 Stains Stains, Interior 250 Stone consolidants 450 Swimming pool coatings 340 100 Traffic marking coatings Tub and tile refinish coatings 420 Waterproofing membranes 100 275 Wood coatings Wood preservatives 350 Zinc-rich primers 100

FORMALDEHYDE LIMITS¹

Form: B-043

Maximum Formaldehyde Emissions in Parts per Million.

PRODUCT	CURRENT LIMIT
Hardwood plywood veneer core	0.05
Hardwood plywood composite core	0.05
Particleboard	0.09
Medium density fiberboard	0.11
Thin medium density fiberboard ²	0.13

^{1.} Values in this table are derived from those specified by the California Air Resources Board, Air Toxics Control Measure for Composite Wood as tested in accordance with ASTM E 1333. For additional information, see California Code of Regulations, Title 17, Sections 93120 through 2 Thin medium density fiberboard has a maximum thickness of ⁵/₁₆ inches (8 mm).

SEALANT VOC LIMIT Less Water and Less Exempt Compounds in Grams per Liter

CURRENT VOC LIMIT
50
760
300
250
450
420
250
775
500
760
750

Note: For additional information regarding methods to measure the VOC content specified in these tables, see South Coast Air Quality Management District Rule 1168.

ADHESIVE VOC LIMIT 1,2

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
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
Drywall and panel adhesives	50
Cove base adhesives	50
Multipurpose construction adhesives	70
Structural glazing adhesives	100
Single-ply roof membrane adhesives	250
Other adhesives not specifically listed	50
SPECIALTY APPLICATIONS	
PVC welding	510
CPVC welding	490
ABS welding	325
Plastic cement welding	100
Adhesive primer for plastic	550
Contact adhesive	80
Special purpose contact adhesive	250
Structural wood member adhesive	140
Top and trim adhesive	250
SUBSTRATE SPECIFIC APPLICATIONS	
Metal to metal	30
Plastic foams	50
Porous material (except wood)	50
Wood	30
Fiberglass 1. If an adhesive is used to bond dissimilar substrates	80

If an adhesive is used to bond dissimilar substrates together, the adhesive with the highest

Grams of VOC per liter of coating, including water and including exempt compounds

² The specified limits remain in effect unless revised limits are listed in subsequent columns in the

^{3.} Some values in this table are derived from those specified by the California Air Resources Board, Architectural Coatings Suggested Control Measure, February 5, 2016. More information is available from the Air Resources Board.

VOC content shall be allowed.

For additional information regarding methods to measure the VOC content specified in this table, see South Coast Air Quality Management District Rule 1168, http://www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF.