

VOC Regulations And Siplast Adhesive And Primer Products

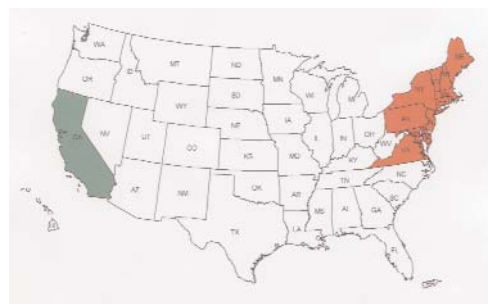


VOC Regulations

In 1991, the U.S. EPA passed the Clean Air Act with the intention of lowering smog levels. One way to lower contribution to smog levels is to reduce the amount of Volatile Organic Compounds (VOCs) available for release into the atmosphere. VOCs are organic compounds that react with atmospheric ozone and particulates to increase the level of air pollution. If a product's VOC level is below the limit set forth in the regulations, it is known as VOC-compliant. In some of the more densely populated regions of the country where air quality is a greater problem, there are stricter regulations limiting the amount of VOC a product can contain.

Two such areas of the United States are California, overseen by the California Air Resource Board (CARB), and several northeastern states comprising the Ozone Transport Commission (OTC). The OTC states are shown in red on the map to the right. Consumer products are defined very broadly in these regulations and include many commercial and institutional products.

California has been regulating the VOC content in consumer and commercial products for several years. The regulation set by CARB for clean air standards calls for a maximum



California and the OTC states.

250 g/L for roofing adhesives and maximum 350 g/L for roofing primers.

VOC guidelines in the OTC states went into effect in 2005. The VOC rule adopted by the OTC is maximum 350 g/L for roofing primers. Presently, OTC guidelines for roofing adhesives, which include cements typically used for flashing applications, are 300 g/L for non-membrane roof installation/repair.

Member states have mandated VOC requirements on a seasonal basis until 2011, where full year enforcement is in effect for most states. See Table 2: OTC Compliance Schedule for Low VOC Roofing Products.

Table 1:
Siplast Products And Their VOC Content - Compliance

PRODUCT	TYPE	VOC CONTENT	MEETS CA CARB	MEETS OTC
PA-311 Adhesive	Adhesive	≤ 395	No	No
PA-311 M Adhesive	Adhesive	≤ 250	Yes	Yes
PA-311 LS Adhesive	Adhesive	≤ 250	Yes	Yes
SFT Adhesive	Adhesive	≤ 0	Yes	Yes
PA-1125 Primer	Primer	≤ 475	No	No
PA-917 LS Primer	Primer	≤ 350	Yes	Yes
PA-1130 Primer	Primer	≤ 10	Yes	Yes
PA-1021 Cement	Adhesive	≤ 250	Yes	Yes
TA-119 Primer	Primer	≤ 200	Yes	Yes
PA-828 Cement	Adhesive	≤ 300	Yes	Yes
SFT Cement	Adhesive	≤ 0	Yes	Yes
PS-304 Sealant	Roof Caulk/Sealant	≤ 0	Yes*	Yes*
PC-227 Elastomeric Coating	Roof Coating	≤ 0	Yes*	Yes*

* Sealants and coatings as roofing products do not currently fall under the state of California or under OTC state regs. However, PC-227 and PS-304 would meet the regs under the category of construction paints and sealants for both regulating bodies.



Table 2:
OTC Compliance Schedule for Low VOC Roofing Products by State.

	2010	2011	2012
Connecticut	5/1/10 through 9/30/10	Full Year Enforcement	Full Year Enforcement
Delaware	5/1/10 through 9/30/10	Full Year Enforcement	Full Year Enforcement
District of Columbia	5/1/10 through 9/30/10	Full Year Enforcement	Full Year Enforcement
Maine	5/1/10 through 9/30/10	Full Year Enforcement	Full Year Enforcement
Maryland	5/1/10 through 9/30/10	Full Year Enforcement	Full Year Enforcement
Massachusetts	5/1/10 through 9/30/10	5/1/11 through 9/30/11	Under Development
New Hampshire	No plans at this time	Under Development	Under Development
New Jersey	5/1/10 through 9/30/10	Full Year Enforcement	Full Year Enforcement
New York		Full Year Enforcement	Full Year Enforcement
Pennsylvania	4/15/10 through 10/15/10	4/15/11 through 10/15/11	Full Year Enforcement
Rhode Island	5/1/10 through 9/30/10	5/1/11 through 9/30/11	Full Year Enforcement
Vermont	No plans at this time	Under Development	Under Development
Virginia		Full Year Enforcement	Full Year Enforcement

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