

# VOC Regulations Overview

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## Definitions

- VOC-Volatile Organic Compound
- OTC-Ozone Transport Commission
- CARB-California Air Resource Board
- AQMD-Air Quality Management District
- LADCO-Lake Michigan Air Directors Consortium
- AIM-Architectural and Industrial Maintenance Coatings
  
- Product Stewardship:
  - The concept that manufacturers are responsible for where a product is sold, shipped to and installed even after they sell it to distribution.

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## Definitions?

- Volatile Organic Compounds (VOCs)
  - Major contributing factor to ground-level ozone
  - Common air pollutant which has been proven to be a public health hazard
  - Usually petroleum-based solvents
    - Examples: Mineral spirits, xylene, toluene
- Exempt Solvent:
  - A solvent that is given special non-regulated status because it evaporates slowly/ has a low vapor pressure.
    - Examples: *t*-bac, Isopar™ V

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## Where Our Products Are Regulated

- California
    - Both statewide (CARB) and also at local level (AQMDs)
    - SC (South Coast) and BA (Bay Area) are typically more stringent AQMD's
  - OTC
    - CT, DE, DC, ME, MD, MA, NH, NJ, NY, PA, RI, VT, and Northern VA
  - Canada (Environment Canada- US EPA Equal)
    - 2010
  - LADCO- OH, MI, IN, IL, WI
  - Maricopa County, Arizona
- Note: Due to product stewardship, Tremco treats whole states and/or areas as one entity and applies the strictest rule across the whole area.

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## What Product Groups are Regulated?

- Sealants:
  - Any sealant under 16oz. considered a consumer product... falls under Consumer Product Rule
  - Larger packages under Architectural Sealants Rules
- AIM's
  - Vulkem Coating Systems fall under this Category
- Waterproofing Sealers and Membranes:
  - Our Membranes (TREMproof, Paraseal), ExoAir Membranes impacted in California and Maricopa County, AZ only
- Primers
  - Multi-use primers fall under the category with the strictest rule.
  - Single use primers regulated by that uses rule

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## What the Rules Are Today

- Sealants:
  - Consumer product... 4% by weight
    - OTC, LADCO, CARB
  - Architectural... 250 g/L
    - OTC, LADCO, CARB
- AIM's and Primers
  - OTC, LADCO, Maricopa... 340 g/L
  - BAAQMD... 250 g/L
  - SCAQMD... 100 g/L
  - Note: Size Exemption below 1 gallon size
- Waterproofing Sealers/Membranes and Primers:
  - OTC, LADCO, CARB... 250 g/L
  - SCAQMD... 100 g/L

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## What the Rules Are Today

- **US Federal Government**
  - Executive Orders 13101, 13148 and 13123 require all Federal agencies to comply with strict procurement and construction practice guidelines that insure building longevity and maximize environmental protection.
    - These became the “Federal LEED Mandate” in January 2006
    - As such, all US government buildings (total is 500,000+) must be built/renovated to LEED standards, which follow the strictest VOC laws.
- **LEED**
  - Many states (over 1/2) now require or have pending LEED type building regulations, which vicariously force VOC reductions in building products.
  - Note: LEED Rules apply to products within the exterior most surface of the building as the LEED VOC rules apply to indoor air quality.

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## Affected Products

- Consumer Products over 4%:
  - Mono 555
  - Tremco Butyl Sealant
  - Tremco 830 (except clear)
  - TRS 600
  - Tremco Gutterseal
  - Tremco Curtainwall Sealant
  - The IPD/RW/OEM similar products would also be impacted.
- Architectural Sealants over 250 g/L:
  - None
- Waterproofing over 100 g/L (none over 250):
  - 201/60 and 250GC non-LV versions
    - Note: 250GC-T and EA Termination Mastic are sealant mastics and as such are controlled by the Architectural Sealant Rule

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## Affected Products

- Coatings over 100 g/L (none over 340):
  - TremGard 640/642
  - Vulkem 351
  - Vulkem 345/346
  - Note: New 350's will be < 100 g/L
- Waterproofing over 100 g/L:
  - 201/60 and 250GC non-LV versions
    - Note: 250GC-T and EA Termination Mastic are sealant mastics and as such are controlled by the Architectural Sealant Rule
- Primers:
  - ParaPrimer, Vulkem 171 and 191 can only be sold in Quarts in these areas.
  - Tremprime QD-Low Odor and EA 10 (California Only) not allowed.

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## What New Rules Are Coming

- Canada...
  - Consumer Product Sealants 4% by weight in 2010
  - Architectural Sealants 250 g/L in 2010
  - AIM 250 g/L in 2010
  - Waterproofing 250 g/L in 2010
- California...
  - Chemically Curing Consumer Sealants 3% by weight in 2010
    - This will impact V.921 and its equivalents
  - Non-Chemically Curing Consumer Sealants 1.5% by weight in 2010
  - Consumer Sealants will need labeled Chemically Curing or Non-Chemically Curing (rule anticipated for Architectural Size soon as well)

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## What New Rules Are Coming

- US-wide
  - In 2009 EPA is expected to update the Federal Rule and essentially adopt the OTC/LADCO rule nationwide for sometime in 2010 or 2011.
  - This will be good as it will help unify the policy across the whole country.
  - But, individual areas (i.e. California) will still be allowed to set their own stricter rules to help meet their air quality plans.

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## Closing

- Regulations are always changing both locally and regionally
- Ask your Sales Representative or Technical Services if you have questions.
- Customer Service has an updated listing of what materials and what package restrictions exist throughout North America.

***•There are red flags in place internally to restrict sale and shipment.***

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