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VOC Content Certificate

Re: VOC content of Ozseal Primers & Cements

Definitions

VOC - volatile organic compound

A number of different lists of VOC's have been compiled which vary due to the lack of standard criteria for defining VOC's and differences in focus on the effects of VOC's. The three main focus areas for VOC's are:

1. VOC's involvement in formation of photochemical smog:
 - > VOC's which participate in atmospheric photochemical reactions that contribute to ozone depletion.
 - > VOC's in secondary organic aerosols, which are found in airborne particulate matter
2. Health and/or flammability hazards in the context of indoor air quality of buildings & houses, as affected by VOC's emitted from construction materials, surface coatings, adhesives, furnishings, textiles, etc.
3. Workplace health & safety hazards, covered by Exposure Standards and other OHS regulations.

Lists of VOC's often omit several commonly used solvents which are known not to participate in photochemical reactions in the atmosphere, even though the solvents are health or flammability hazards. For example, acetone (highly flammable) and methylene chloride (health hazard) are frequently excluded or exempted.

To obtain VOC loadings for the below products, the following VOC definition is applied:

VOC's included are organic compounds present in a formulation that have either:

- a) Vapour pressure ≥ 0.01 mm Hg (≥ 0.0013 KPa) at 20-21°C, or
- b) Boiling point $\leq 250^\circ\text{C}$ measured at 1 atmosphere pressure (101.3 KPa, 760 mm Hg)

All such VOC's are included, irrespective of whether or not they contribute to photochemical smog. Although not containing carbon, Ammonia is also included since it is a ubiquitous hazardous volatile compound present in many products sold globally. On the other hand, the following carbon oxide compounds are not included as VOC's: carbon monoxide, carbon dioxide, carbonic acid, carbonates, metallic carbides.

VOC's by Product

Product	VOC's g / litre
Ozseal Primer – Clear	800g/L
Ozseal Primer – Red	800g/L
Ozseal Type N Cement – Blue	715g/L
Ozseal Type N Cement – Clear	715g/L
Ozseal Type P Cement – Green	750g/L
Ozseal Type P Cement – Clear	750g/L

NOTE: VOC levels are calculated based on the product formulations.

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