H.B. Fuller

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RE: Firesound® - Green Star (GBCA) requirements for paints/adhesives.

ASTM D3960 results for the HB Fuller product 'Firesound®' are expressed in the table below:

Standard	Result
ASTM D2369 (TVOC)	31g/L
ASTM D1475 (Density)	1497g/L
ASTM D4017 (Water content)	16.8%
ASTM D4457 (Exempt compounds)	N/A

The VOC content has been determined by calculation method based on the subtotal TVOC content of the products' raw materials.

The details of the California South Coast are quality management rule 1168, and test method ASTM D2369 can be viewed at the following website:

http://www.aqmd.gov/docs/default-source/rule-book/reg-xi/rule-1168.pdf

Please see over for VOC guidance for Paints, Adhesives and sealants applicable as at this date.

GUIDANCE

Paint and Adhesives Testing Methods
The following VOC test methods are relevant to paints:

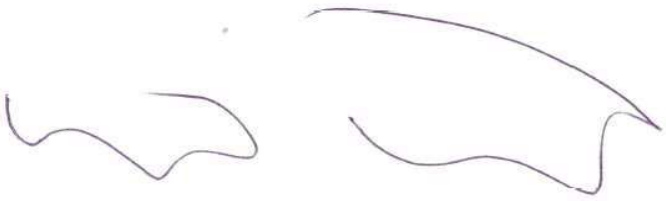
- ISO Method 17895 (2005), for a material with a presumed VOC content <1%;
- ISO Method 11890-2 (2006), for a material with a presumed VOC <15%;
- ISO Method 11890-1 (2007), for a material with a presumed VOC content >15%; and
- ASTM D3960, which is comprised of four individual testing procedures that measures TVOC (D2369) as well as density (D1475) and water content (D4017). Exempt compounds (D4457) must not be subtracted in the calculation of VOC content.

The testing method for adhesive and sealants is the ASTM D3960 as detailed for paints. For more information on ASTM D3960 refer to *South Coast Air Quality Management District Rule 1168*.

Theoretical VOC Calculations
Where TVOC content for the individual items is known, a theoretical calculation based on the subtotal of the known VOC values of the product's raw material components is acceptable. This is not relevant to carpets and engineered wood products where experimental testing is required. The calculations must include the following:

- Numerical TVOC results expressed in g/litre of product; and
- Statement that the results have been obtained based on the subtotal of the known TVOC values of the product's raw ingredients.

Yours sincerely,



Kris Bogos

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