

## Certificate of Compliance – VOC Emissions

### LiON HARD™ Concrete Hardener L&M Construction Chemicals, Inc.

L&M Construction Chemicals, Inc. selected a sample representative of its LiON HARD™ Concrete Hardener product and submitted it for testing on August 11, 2009. Berkeley Analytical measured and evaluated the emissions of volatile organic compounds (VOCs) from this sample according to California Department of Health Services (CDHS) *Standard Practice for the Testing of Volatile Organic Emissions from Various Sources Using Small-Scale Environmental Chambers* (CA/DHS/EHLB/R-174, 2004; also known as, chamber testing portion of CA Section 01350) and ASTM Standard Guide D 5116-06. Chemical sampling and analyses were performed following U.S. EPA Compendium Methods TO-1 and TO-17 and ASTM Standard Method D 5197-03.

Calculations were performed with the following standard classroom and office exposure parameters to project the concentrations of VOCs of concern resulting from the use of this product. The results of the test and the calculated concentrations for the classroom and office are presented in Berkeley Analytical laboratory report, 397-002-01A-Sep0809.

#### Exposure Scenarios

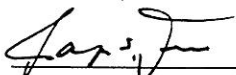
Standardized Environment	Room Volume (m <sup>3</sup> )	Area Specific Air Flow Rate (m/h)	Flooring Area (m <sup>2</sup> )
Classroom	231	2.10	89.2
Office	30.6	1.86	11.1

#### Summary of test results according to the CA DHS Standard Practice guidelines:

- No VOCs, including formaldehyde and other individual VOCs of concern were detected above the lower limits of quantitation at 14 days exposure time.

**Based on these results, the tested product sample meets the VOC emission requirements for use in classroom and office environments as defined in the CA DHS *Standard Practice*. Thus, the testing requirements are met to qualify the product as a low-emitting material in the Collaborative for High Performance Schools rating system (CHPS Designed & CHPS Verified).**

Certificate No.: 90909-02  
Dated: September 9, 2009

  
Raja S. Tannous  
Laboratory Director

  
Kelly Campbell  
Quality Manager