

## Certificate of Compliance – VOC Emissions

### Mildew Guard™ Wallcovering Primer - PRO-990 (CSI category 099000) Roman Decorating Products

Roman Decorating Products selected a sample representative of its Mildew Guard™ Wallcovering Primer - PRO-990 product manufactured in Calumet City, IL and submitted it for testing on 12/17/2010. 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, including 2004 Addenda; also known as, chamber testing portion of CA Section 01350) and ASTM Standard Guide D 5116-06. Chemical sampling and analysis were performed following U.S. EPA Compendium Methods TO-1 and TO-17 and ASTM Standard Method D 5197-09.

Calculations were performed with the following classroom and office exposure parameters to project the concentrations of VOCs of concern resulting from the use of the product. These parameters are taken from California Department of Public Health CDPH/EHLB/Standard Method V1.1, 2010. The results of the test and the calculated concentrations for the classroom and office are presented in Berkeley Analytical laboratory report, 527-001-05A-Jan1011.

#### Exposure Scenarios

Standardized Environment	Room Volume (m <sup>3</sup> )	Area Specific Air Flow Rate (m/h)	Wall Area (m <sup>2</sup> )
Classroom	231	2.02	94.6
Office	30.6	0.62	33.4

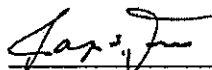
#### Summary of test results according to the CA DHS Standard Practice guidelines:

- Predicted concentrations of all VOCs of concern including formaldehyde were below the guideline concentrations.

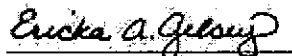
Based on these results, the tested product sample meets the VOC emission requirements for use in classroom and office environments as defined in the CA DHS *Standard Practice*. Thus, the testing requirements are met to qualify the product as a low-emitting material in the Collaborative for High Performance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

Certificate No.: 110110-01

Dated: January 10, 2011



Raja S. Tannous  
Laboratory Director



Ericka Gelsey  
Quality Manager

FC08.1

## Certificate of Compliance – VOC Emissions

### Ultra Plus™ Wallcovering Adhesive - PRO-888 (CSI category 099000) Roman Decorating Products

Roman Decorating Products selected a sample representative of its Ultra Plus™ Wallcovering Adhesive - PRO-888 product manufactured in Calumet City, IL and submitted it for testing on 1/12/2011. Berkeley Analytical measured and evaluated the emissions of volatile organic compounds (VOCs) from this sample according to California Department of Public Health (CDPH) *Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions From Indoor Sources Using Environmental Chambers*; CDPH/EHLB/Standard Method, Version 1.1, 2010 (also known as, chamber testing portion of CA Section 01350) and ASTM Standard Guide D 5116. Chemical sampling and analysis were performed following U.S. EPA Compendium Method TO-17 and ASTM Standard Method D 5197.

Calculations were performed with the following classroom and office exposure parameters to project the concentrations of VOCs of concern resulting from the use of the product. These parameters are taken from CDPH/EHLB/Standard Method V1.1, 2010. The results of the test and the calculated concentrations for the classroom and office are presented in Berkeley Analytical laboratory report, 527-002-02A-Jan2811.

#### Exposure Scenarios

Standardized Environment	Room Volume (m <sup>3</sup> )	Area Specific Air Flow Rate (m/h)	Wall Area (m <sup>2</sup> )
Classroom	231	2.02	94.6
Office	30.6	0.62	33.4

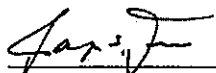
#### Summary of test results according to the CDPH Standard Method guidelines:

- Predicted concentrations of all VOCs of concern including formaldehyde were below the guideline concentrations.

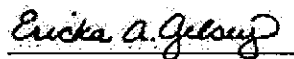
Based on these results, the tested product sample meets the VOC emission requirements for use in classroom and office environments as defined in the CA DHS *Standard Practice*. Thus, the testing requirements are met to qualify the product as a low-emitting material in the Collaborative for High Performance Schools rating system (CHPS Designed & CHPS Verified). Also, the testing requirements are met for USGBC LEED 2009 for Schools, IEQ Credit 4.6 Low-Emitting Materials – Ceiling and Wall Systems.

Certificate No.: 110128-02

Dated: January 28, 2011



Raja S. Tannous  
Laboratory Director



Ericka Gelsey  
Quality Manager

## Certificate of Compliance – VOC Emissions

### Ultra® Plus Clay Wallcovering Adhesive - PRO-788 (CSI category 099000) Roman Decorating Products

Roman Decorating Products selected a sample representative of its Ultra® Plus Clay Wallcovering Adhesive - PRO-788 product manufactured in Calumet City, IL and submitted it for testing on 12/17/2010. 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, including 2004 Addenda; also known as, chamber testing portion of CA Section 01350) and ASTM Standard Guide D 5116-06. Chemical sampling and analysis were performed following U.S. EPA Compendium Methods TO-1 and TO-17 and ASTM Standard Method D 5197-09.

Calculations were performed with the following classroom and office exposure parameters to project the concentrations of VOCs of concern resulting from the use of the product. These parameters are taken from California Department of Public Health CDPH/EHLB/Standard Method V1.1, 2010. The results of the test and the calculated concentrations for the classroom and office are presented in Berkeley Analytical laboratory report, 527-001-02A-Jan0611.

#### Exposure Scenarios

Standardized Environment	Room Volume (m <sup>3</sup> )	Area Specific Air Flow Rate (m/h)	Wall Area (m <sup>2</sup> )
Classroom	231	2.02	94.6
Office	30.6	0.62	33.4

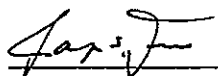
#### Summary of test results according to the CA DHS Standard Practice guidelines:

- Predicted concentrations of all VOCs of concern including formaldehyde were below the guideline concentrations.

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.: 110106-01

Dated: January 6, 2011



Raja S. Tannous  
Laboratory Director



Ericka Gelsey  
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