



## RESULTS OF INDEPENDENT TESTING PROCOUSTIC ACOUSTICAL TILE & CEILING COATING

Note: The following tests were conducted on ProCoustic in the white color formulation. Changes in the formula to achieve other colors may yield different results.

### Acoustical Test

Tested By: Riverbank Acoustical Laboratories, Geneva, Illinois  
Test Used: ASTM C423-89 and ASTM E785-83  
Purpose: To determine whether the application of ProCoustic would negatively affect the sound absorption qualities of an acoustical ceiling tile. Since sound absorption is a function of its composition and every substrate will perform differently, the most common white, 2'x4' lay-in tile was used.  
Results: A 9% improvement in the Noise Reduction Coefficient (0.55 to 0.60) as a result of applying ProCoustic to the tile surface.

### Fire Test

Tested By: Factory Mutual Research, Norwood, Massachusetts  
Test Used: ASTM E-84 (Steiner Tunnel Test)  
Purpose: To determine if the application of ProCoustic would negatively affect the fire-retardant characteristics of an acoustical ceiling tile.  
Results: Flame spread reduced from 25 to 0  
Smoke density reduced from 10 to 5

### Light Reflectance Test

Tested By: Riverbank Acoustical Laboratories, Geneva, Illinois  
Test Used: ASTM C-523-68  
Purpose: To determine if the application of ProCoustic would negatively affect the reflectance of light off a new acoustical ceiling tile. Alternate substrates may yield different results.  
Results: A 9% improvement in the reflectance of light due to the application of ProCoustic (0.81 to 0.88).

### Combustion Toxicity Test

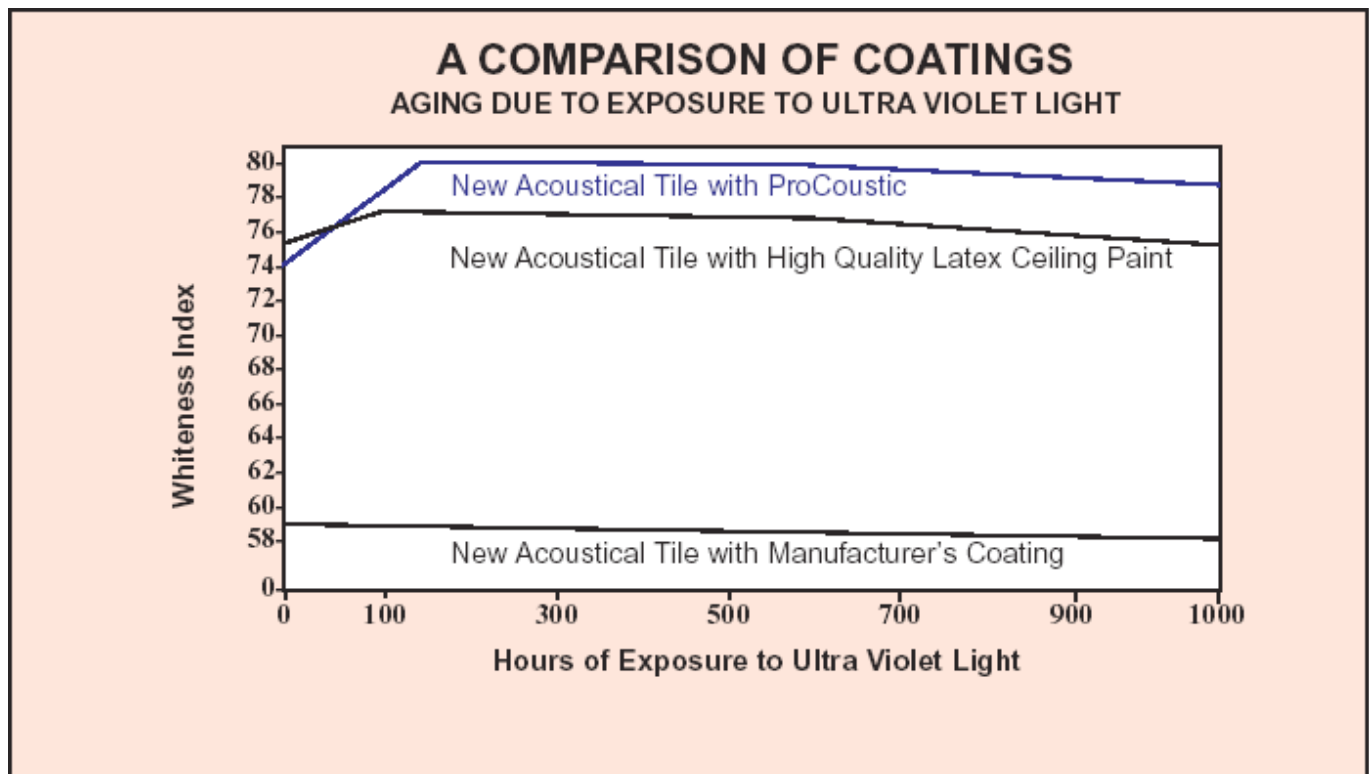
Tested By: Anderson Laboratories Inc., Dedham, Massachusetts  
Test Used: The protocol of the University of Pittsburgh for evaluation of acute toxicity of thermal composition products.  
Purpose: To determine if the application of ProCoustic to an acoustical ceiling tile would negatively affect the toxicity values of the combined products (tile with ProCoustic applied).  
Results: Within the limits of this test, ProCoustic is non-toxic. When added to another material, such as an acoustical ceiling tile, it improves the smoke toxicity test values.

## VOC Test

Tested By: Berkeley Analytical, Richmond, CA  
Test Used: CDPH/EHLB/Standard Method V1.2-2017  
Purpose: To determine if the VOC emissions resulting from the application of ProCoastic are within the limits of the standards established by such organizations as USGBC LEED, the WELL Building Standard and ANSI/GBI.  
Results: Compliant:  $\leq 0.5$  mg/cubic meter with a coverage of 153 g/square meter

## Aging (Longevity) Test

Tested By: DL Laboratories, New York, NY  
Test Used: ASTM E-313  
Purpose: To (1) determine the effects of time and exposure to ultraviolet on a new acoustical ceiling tile with ProCoastic on the surface and, (2) compare the results with an untreated new factory coated acoustical ceiling tile and one coated with a high quality latex paint on the surface. The three samples were tested at the same time and subjected to the same exposure.  
Results: The ProCoastic sample performed the best of the three. ProCoastic has a higher Whiteness Index Value and maintained that advantage over time. The lowest Whiteness Index Value was recorded by the new tile sample. See graph below.



More detailed testing information available upon request.