

## Acoustement Plaster 20® Environmental Sustainability

Acoustical Finishes from Pyrok™, Inc.

Organized according to Green Format: A reporting Guide for Sustainable Criteria of Products.\*

### 1. Master Format 2004

Section: 09 25 00 –  
Acoustical Spray on Finish  
09 51 00 – Acoustical Ceilings

Product: Acoustement Plaster 20  
acoustical finish

### 2. Manufacturer's Information

Trade Name:  
Acoustement Plaster 20  
Product: Acoustical Finish  
Manufacturer: Pyrok™, Inc.

### 3. Product Description

The Acoustement Plaster 20  
acoustical finish system consists of a  
spray on, trowel finish surface  
manufactured from a gypsum base.  
Acoustement Plaster 20 is 22pcf  
density.

The system can be installed on  
ceilings, walls, and other interior  
features where a high level of abuse-  
resistance is required.

If a suspension system is required  
for the installation of Acoustement  
Plaster 20, the sustainability of the  
suspension system can also be  
considered.

### 4. Regulatory Agency Sustainability Approvals

New York City Department of  
Buildings Report of Material and  
Equipment Acceptance Division,  
MEA #376-88-M.

Material Safety data Sheet (MSDS) is  
available upon request.

### 5. Sustainability Standards and Certifications

Acoustement Plaster 20 acoustical  
finish can impact the following  
prerequisites and credits under the  
USGBC's LEED program  
(<http://www.usgbc.com>)

#### EA Prerequisite 1 Fundamental Commissioning of the Building Energy System

Provide access doors if required for  
commissioning or maintaining building  
systems located above ceilings.

#### EA Credit 1 Optimize Energy Performance

Lighting Efficiency is dependent on the  
desired finish quality. The light  
reflectivity is as follows:

Textured	42 in
Semi-Smooth	62 in
Painted	82 in

(measured in accordance with DIN 5036 –  
Radiometric and Photometric Properties of  
materials).

Thermal Insulation: R-value = 0.75  
(measured in accordance with DIN 52613 –  
Thermal Insulation Testing; Determination  
of Thermal Conductivity by the Tube  
Method when tested in a horizontal  
position).

#### MR Credit 2.1 and 2.2 Construction Waste Management:

Packaging: 35lbs bags packaged in  
paper-polyethylene lined bags.  
55 bags shrink wrapped on a pallet,  
1100 bags per truckload.  
Scrap: See Article 10 and 12, below.

#### EQ Prerequisite 3 Minimum Acoustic Performance.\*\*

Acoustement Plaster 20 sound  
absorptive finish contributes to control  
of reverberation within classrooms.

Acoustement Plaster 20 can provide  
noise reduction coefficients (NRC) up  
to 0.80 at 1-1/4" thickness.  
(measured in accordance with ASTM C423 –  
Sound Absorption and Sound Absorption  
Coefficients by the Reverberation Room  
Method).

#### EQ Credit 4.2 Low Emitting Materials

Acoustement Plaster products give off  
extremely low levels of VOCs:  
Acoustement Plaster 20: 0g/l  
(measured in accordance with procedures  
outline in CPA method 24 "Volatile Organic  
Content (VOC) of paints and related  
coatings." The VOC was calculated using the  
equation referenced in ASTM D3960  
"Determination of Volatile Organic  
Compound Content of Paints and related  
coating")

#### EQ Credits 8.1 and 8.2 Daylight and Views

See comment on lighting efficiency at  
EA credit 1, above.

### 6. Sustainable Performance Criteria

No criteria have been identified.

### 7. Sustainable Composition of Product

No criteria have been identified.

## 8. Material Extraction and Transportation

Acoustement Plaster 20 is processed and shipped from New Eagle, PA. It is composed of the following materials:

- gypsum (Oklahoma)
- perlite (Pennsylvania)
- vermiculite (extracted in South Africa, processed in Pennsylvania)

The light weight of the Acoustement Plaster system minimizes energy expended in transport.

## 9. Manufacturing Phase

No by-products are produced in the manufacturing process. No toxic or hazardous materials are used or produced. See MSDS.

## 10. Construction Phase

Unused finish coat materials can be saved for use on other projects. The light weight of Acoustement Plaster 20 materials simplifies handling and reduces installation energy use.

## 11. Facility Operations Phase

The acoustical properties of Acoustement Plaster 20 ceilings improve the acoustic quality of a space. Studies have shown that building occupants are more satisfied and productive in optimal acoustic environments.

Acoustement Plaster 20 is mold resistant.

## 12. Deconstruction / Recycling

100 percent of demolition debris may be recycled as a fill material or roadway base material.

## 13. Additional Information

The Acoustement Plaster 20 is durable and can last the life of a building with minimal maintenance. The surface can be vacuumed with a stiff bristle brush. Small smudges can be removed with a soft pencil eraser. If necessary, the Acoustement Plaster 20 can be painted without loss of its sound absorbing properties.

## 14. Certification

The information provided herein concerning the sustainability of Acoustement Plaster 20 Acoustic Plaster Finish is true, correct, and verifiable.

---

Name: Howard Podolsky  
Title: General Manager

\*GreenFormat is a format for organizing information pertaining to the environmental sustainability of building products. It is being developed by the Construction Specifications Institute (CSI). At the time this document was issued, GreenFormat has not been finalized.

For additional information, see <http://www.csinet.org/Home-Page-Category/Formats/GF>

\*\*EQ Prerequisite 3 – Minimum Acoustic Performance is currently only located in the 'LEED for Schools' Program.