

Environmental Sustainability of Acoustement Plaster 40® Acoustical Finishes from Pyrok™, Inc.

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

1. MasterFormat 2004

Section: 09 25 00 – Acoustical
Spray on Finish
09 51 00 – Acoustical
Ceilings
Product: Acoustement Plaster 40
acoustical finish

2. Manufacturer's Information

Trade Name: Acoustement Plaster 40
Product: Acoustical Finish
Manufacturer: Pyrok™, Inc

3. Product Description

The Acoustement Plaster 40
acoustical finish system consists of a
spray on, trowel finish surface
manufactured from a gypsum base.
Acoustement Plaster 40 is 40pcf
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
40, 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 40 acoustical
finish can impact the following
prerequisites and credits under the
USGBC's LEED program
(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 40 sound
absorptive finish contributes to control
of reverberation within classrooms.
Acoustement Plaster 40 can provide
noise reduction coefficients (NRC) up
to 0.75 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 40: 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 40 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.



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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 40 materials simplifies handling and reduces installation energy use.

11. Facility Operations Phase

The acoustical properties of Acoustement Plaster 40 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 40 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 40 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 40 can be painted without loss of its sound absorbing properties.

14. Certification

The information provided herein concerning the sustainability of Acoustement Plaster 40 Acoustic Plaster Finish is true, correct, and verifiable.



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*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 www.greenformat.com or www.csinet.org/s_csi/docs/13700/13644.pdf

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



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