L&M™ EMERYTOP 400™
by LATICRETE International

CLASSIFICATION: 03 53 13

PRODUCT DESCRIPTION: L&M™ EMERYTOP 400™ is an abrasion resistant, heavy duty floor topping. This flowable, natural emery aggregate floor topping produces a long-lasting and resilient floor.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format
- Nested Materials Method
- Basic Method

Threshold Disclosed Per
- Material
- Product

Threshold level
- 100 ppm
- 1,000 ppm
- Per GHS SDS
- Per OSHA MSDS
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

All Substances Above the Threshold Indicated Are:
- Characterized
- Screened
- Identified

CONTENT IN DESCENDING ORDER OF QUANTITY

Summary of product contents and results from screening individual chemical substances against HPD Priority Hazard Lists and the GreenScreen for Safer Chemicals®. The HPD does not assess whether using or handling this product will expose individuals to its chemical substances or any health risk. Refer to Section 2 for further details.

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY | GREENSCREEN SCORE | HAZARD TYPE
--- | --- | --- | --- | ---
L&M™ EMERYTOP 400™ | EMEY LT-UNK QUARTZ LT-1 | CAN | LT-P1 | END | CAN FLY ASH LT-UNK SILICA FUME LT-P1 | CAN UNDISCLOSED LT-1 | CAN | MUL UNDISCLOSED LT-UNK UNDISCLOSED BM-1 | CAN UNDISCLOSED LT-UNK UNDISCLOSED BM-1 | END | MUL | CAN | CALCIUM CARBONATE BM-3 LIMESTONE CALCIUM CARBONATE LT-UNK

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 0.00
Regulatory (g/l): N/A
Does the product contain exempt VOCs: No
Are ultra-low VOC tints available: N/A

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

VOC emissions: N/A
VOC content: LATICRETE TDS 251 "Low VOC LATICRETE Products"

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared
VERIFIER:
VERIFICATION #:
Section 2: Content in Descending Order of Quantity

This section lists contents in a product based on specific threshold(s) and reports detailed health information including hazards. This HPD uses the inventory method indicated above, which is one of three possible methods:

- Basic Inventory method with Product-level threshold.
- Nested Material Inventory method with Product-level threshold
- Nested Material Inventory method with individual Material-level thresholds

Definitions and requirements for the three inventory methods and requirements for each data field can be found in the HPD Open Standard version 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

<table>
<thead>
<tr>
<th>Material</th>
<th>Product Threshold</th>
<th>Residuals and Impurities Considered</th>
<th>Residuals and Impurities Notes</th>
<th>Other Product Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>L&amp;M™ EMERYTOP 400™</td>
<td>100 ppm</td>
<td>Yes</td>
<td>Residuals and impurities are measured by quantitative methods and are only displayed when they are potentially greater than 100 ppm.</td>
<td>See SDS at <a href="http://www.laticrete.com">www.laticrete.com</a> for occupational exposure information.</td>
</tr>
<tr>
<td>EMERY</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ID: 12415-34-8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</td>
<td>HAZARD SCREENING DATE: 2020-03-17</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>%: 35.00 - 45.00</td>
<td>GS: LT-UNK</td>
<td>RC: None</td>
<td>ROLE: Surface Hardener</td>
</tr>
<tr>
<td></td>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td></td>
</tr>
<tr>
<td></td>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SUBSTANCE NOTES:</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>The amount of this component may vary based on the plant of manufacture.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>QUARTZ</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
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<td>ID: 14808-60-7</td>
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<td>HAZARD SCREENING METHOD: Pharos Chemical and Materials Library</td>
<td>HAZARD SCREENING DATE: 2020-03-17</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>%: 25.00 - 30.00</td>
<td>GS: LT-1</td>
<td>RC: None</td>
<td>ROLE: Aggregate</td>
</tr>
<tr>
<td></td>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>HAZARD TYPE</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------</td>
<td>------------------------</td>
<td>----------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 1 - Agent is Carcinogenic to humans</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>IARC</td>
<td>Group 1 - Agent is carcinogenic to humans - inhaled from occupational sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>US NIH - Report on Carcinogens</td>
<td>Known to be Human Carcinogen (respirable size - occupational setting)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 1 - Substances that cause cancer in man</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>GHS - New Zealand</td>
<td>6.7A - Known or presumed human carcinogens</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CANCER</td>
<td>GHS - Japan</td>
<td>Carcinogenicity - Category 1A [H350]</td>
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<tr>
<td>CANCER</td>
<td>GHS - Australia</td>
<td>H350i - May cause cancer by inhalation</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture.

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**PORTLAND CEMENT**

ID: 65997-15-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-03-17

<table>
<thead>
<tr>
<th>%: 20.00 - 25.00</th>
<th>GS: LT-P1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Binder</th>
</tr>
</thead>
</table>

HAZARD TYPE | AGENCY AND LIST TITLES | WARNINGS |
---|------------------------|----------|
ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
CANCER | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification |

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture.

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**FLY ASH**

ID: 68131-74-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-03-17

<table>
<thead>
<tr>
<th>%: 4.00 - 6.00</th>
<th>GS: LT-UNK</th>
<th>RC: PreC</th>
<th>NANO: No</th>
<th>ROLE: Binder</th>
</tr>
</thead>
</table>

None found

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture.

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**SILICA FUME**

ID: 69012-64-2

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### UNDISCLOSED

#### HAZARD SCREENING METHOD:
Pharos Chemical and Materials Library

#### HAZARD SCREENING DATE:
2020-03-17

<table>
<thead>
<tr>
<th>%: 0.20 - 0.30</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Water Reducer</th>
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</tr>
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<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CANCER</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen</td>
</tr>
<tr>
<td></td>
<td>EU - REACH Annex XVII CMRs</td>
<td>Carcinogen Category 1 - Substances known to be Carcinogenic to man</td>
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<tr>
<td></td>
<td>ChemSec - Sin List</td>
<td>CMR - Carcinogen, Mutagen &amp;/or Reproductive Toxicant</td>
</tr>
<tr>
<td>CANCER</td>
<td>MAK</td>
<td>Carcinogen Group 1 - Substances that cause cancer in man</td>
</tr>
<tr>
<td>CANCER</td>
<td>GHS - Australia</td>
<td>H350 - May cause cancer</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture. This product is shown as undisclosed to preserve integrity of formula and maintain competitive advantage. The component CAS# was used to identify associated hazards.

---

### UNDISCLOSED

#### HAZARD SCREENING METHOD:
Pharos Chemical and Materials Library

#### HAZARD SCREENING DATE:
2020-03-17

<table>
<thead>
<tr>
<th>%: 0.01 - 0.05</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Reinforcing Fibers</th>
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<tbody>
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<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
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</thead>
<tbody>
<tr>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture. This product is shown as undisclosed to preserve integrity of formula and maintain competitive advantage. The component CAS# was used to identify associated hazards.

---

### UNDISCLOSED

#### HAZARD SCREENING METHOD:
Pharos Chemical and Materials Library

#### HAZARD SCREENING DATE:
2020-03-17

<table>
<thead>
<tr>
<th>%: 0.01 - 0.05</th>
<th>GS: BM-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Defoamer</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
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<tbody>
<tr>
<td>None found</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture. This product is shown as undisclosed to preserve integrity of formula and maintain competitive advantage. The component CAS# was used to identify associated hazards.
### HAZARD TYPE

| CANCER | IARC | Group 2b - Possibly carcinogenic to humans |
| CANCER | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification |

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture. This product is shown as undisclosed to preserve integrity of formula and maintain competitive advantage. The component CAS# was used to identify associated hazards.

### UNDISCLOSED

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2020-03-17

| %: 0.01 - 0.05 | GS: LT-UNK | RC: None | NANO: No | ROLE: Defoamer |

| %: 0.00 - 0.02 | GS: BM-1 | RC: None | NANO: No | ROLE: Defoamer |

**HAZARD TYPE**

| ENDOCRINE | ChemSec - SIN List | Endocrine Disruption |
| ENDOCRINE | TEDX - Potential Endocrine Disruptors | Potential Endocrine Disruptor |
| MULTIPLE | German FEA - Substances Hazardous to Waters | Class 2 - Hazard to Waters |
| CANCER | MAK | Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels |

**SUBSTANCE NOTES:** The amount of this component may vary based on the plant of manufacture. This product is shown as undisclosed to preserve integrity of formula and maintain competitive advantage. The component CAS# was used to identify associated hazards.

### CALCIUM CARBONATE

**ID:** 471-34-1

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2020-03-17

| %: Impurity/Residual | GS: BM-3 | RC: None | NANO: No | ROLE: Impurity/Residual |

**L&M EMERYTOP 400**

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<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>None found</td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This substance is an impurity or residual. This impurity/residual may or may not be present based on the source of the raw material and/or be less than 100ppm.

### LIMESTONE; CALCIUM CARBONATE

**ID:** 1317-65-3

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library

**HAZARD SCREENING DATE:** 2020-03-17

<table>
<thead>
<tr>
<th>%: Impurity/Residual</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>ROLE: Impurity/Residual</th>
</tr>
</thead>
</table>

**HAZARD TYPE**

<table>
<thead>
<tr>
<th>None found</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>No warnings found on HPD Priority Hazard Lists</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** This substance is an impurity or residual. This impurity/residual may or may not be present based on the source of the raw material and/or be less than 100ppm.
Section 3: Certifications and Compliance

This section lists applicable certification and standards compliance information for VOC emissions and VOC content. Other types of health or environmental performance testing or certifications completed for the product may be provided.

### VOC EMISSIONS

<table>
<thead>
<tr>
<th>Certifying Party:</th>
<th>Self-declared</th>
</tr>
</thead>
<tbody>
<tr>
<td>Applicable Facilities:</td>
<td>Applies to All Facilities.</td>
</tr>
<tr>
<td>Certificate URL:</td>
<td></td>
</tr>
<tr>
<td>Issue Date:</td>
<td>2018-12-19</td>
</tr>
<tr>
<td>Expiry Date:</td>
<td></td>
</tr>
<tr>
<td>Certifier or Lab:</td>
<td>LATICRETE</td>
</tr>
</tbody>
</table>

**Certification and Compliance Notes:** L&M™ EMERYTOP™ 400 has not been tested for VOC emissions.

### VOC CONTENT

<table>
<thead>
<tr>
<th>Certifying Party:</th>
<th>Self-declared</th>
</tr>
</thead>
<tbody>
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<td>Applicable Facilities:</td>
<td>Applies to All Facilities.</td>
</tr>
<tr>
<td>Certificate URL:</td>
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<td>Issue Date:</td>
<td>2019-01-09</td>
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<td>Expiry Date:</td>
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</tr>
<tr>
<td>Certifier or Lab:</td>
<td>LATICRETE</td>
</tr>
</tbody>
</table>

**Certification and Compliance Notes:** There are no guidelines for maximum VOC content for concrete topping materials in LEED v4. Please take note of the VOC content as stated in Section 1: VOLATILE ORGANIC COMPOUND (VOC) CONTENT and on the referenced TDS.

Section 4: Accessories

This section lists related products or materials that the manufacturer requires or recommends for installation (such as adhesives or fasteners), maintenance, cleaning, or operations. For information relating to the contents of these related products, refer to their applicable Health Product Declarations, if available.

**WATER**

| HPD URL: | No HPD Available |

**Condition When Recommended or Required and/or Other Notes:**

L&M™ EMERYTOP 400™ to be mixed with water only following mix ratio and directions as stated on product data sheet.

Section 5: General Notes

L&M™ EMERYTOP 400™ meets the Living Building Challenge v4.0 requirement that the product does not contain any of the Red Listed Materials or Chemicals. Specifically, L&M EMERYTOP 400 does not contain the following:

- Antimicrobials (marketed with a health claim)
- Alkylphenols and related compounds
- Asbestos
- Bisphenol A (BPA) and structural analogues
- California Banned Solvents
- Chlorinated Polymers, including Chlorinated polyethylene (CPE), Chlorinated Polyvinyl Chloride (CPVC), Chloroprene (neoprene monomer), Chlorosulfonated polyethylene (CSPE), Polyvinylidene chloride (PVDC), and Polyvinyl Chloride (PVC)
- Chlorobenzenes
- Chlorofluorocarbons (CFCs) & Hydrochlorofluorocarbons (HCFCs)
- Formaldehyde (added)
- Monomeric, polymeric and organophosphate halogenated flame retardants (HFRs)
- Organotin Compounds
- Perfluorinated Compounds (PFCs)
- Phthalates (orthophthalates)
- Polychlorinated Biphenyls (PCBs)
- Polycyclic Aromatic Hydrocarbons (PAH)
- Short-
Chain and Medium-Chain Chlorinated Paraffins •Toxic Heavy Metals - Arsenic, Cadmium, Chromium, Lead (added), and Mercury •Wood treatments containing Creosote, Arsenic or Pentachlorophenol. See Section 1 for Volatile Organic Compounds (VOC) (wet applied products) information.
**Section 6: References**

**MANUFACTURER INFORMATION**

**MANUFACTURER:** LATICRETE International  
**ADDRESS:** 1 Laticrete Park North  
Bethany CT 06524, USA  
**WEBSITE:** https://laticrete.com

**CONTACT NAME:** Mitch Hawkins  
**TITLE:** Senior Manager, Technical Service  
**PHONE:** 203.393.4619  
**EMAIL:** wmhawkins@laticrete.com

**KEY**

**OSHA MSDS** Occupational Safety and Health Administration Material Safety Data Sheet  
**GHS SDS** Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

**Hazard Types**

- AQU Aquatic toxicity  
- CAN Cancer  
- DEV Developmental toxicity  
- END Endocrine activity  
- EYE Eye irritation/corrosivity  
- GEN Gene mutation  
- GLO Global warming  
- MAM Mammalian/systemic toxicity  
- MUL Multiple hazards  
- NEU Neurotoxicity  
- OZO Ozone depletion  
- PBT Persistent Bioaccumulative Toxic  
- PHY Physical Hazard (reactive)  
- REP Reproductive toxicity  
- RES Respiratory sensitization  
- SKI Skin sensitization/irritation/corrosivity  
- LAN Land Toxicity  
- NF Not found on Priority Hazard Lists

**GreenScreen (GS)**

- BM-4 Benchmark 4 (prefer-safer chemical)  
- BM-3 Benchmark 3 (use but still opportunity for improvement)  
- BM-2 Benchmark 2 (use but search for safer substitutes)  
- BM-1 Benchmark 1 (avoid - chemical of high concern)  
- BM-U Benchmark Unspecified (insufficient data to benchmark)  
- LT-P1 List Translator Possible Benchmark 1  
- LT-1 List Translator Likely Benchmark 1  
- LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)  
- NoGS Unknown (no data on List Translator Lists)

**Recycled Types**

- PreC Preconsumer (Post-Industrial)  
- PostC Postconsumer  
- Both Both Preconsumer and Postconsumer  
- Unk Inclusion of recycled content is unknown  
- None Does not include recycled content

**Other Terms**

**Inventory Methods:**

- Nested Method / Material Threshold Substances listed within each material per threshold indicated per material  
- Nested Method / Product Threshold Substances listed within each material per threshold indicated per product  
- Basic Method / Product Threshold Substances listed individually per threshold indicated per product

**Nano** Composed of nano scale particles or nanotechnology  
**Third Party Verified** Verification by independent certifier approved by HPDC  
**Preparer** Third party preparer, if not self-prepared by manufacturer  
**Applicable facilities** Manufacturing sites to which testing applies

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The Health Product Declaration (HPD) Open Standard provides for the disclosure of product contents and potential associated human and environmental health hazards. Hazard associations are based on the HPD Priority Hazard Lists, the GreenScreen List Translator™, and when available, full GreenScreen® assessments. The HPD Open Standard v2.1 is not:

- a method for the assessment of exposure or risk associated with product handling or use,  
- a method for assessing potential health impacts of: (i) substances used or created during the manufacturing process or (ii) substances created after the product is delivered for end use.

Information about life cycle, exposure and/or risk assessments performed on the product may be reported by the manufacturer in appropriate Notes sections, and/or, where applicable, in the Certifications section.

The HPD Open Standard was created and is supported by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry that is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

The product manufacturer and any applicable independent verifier are solely responsible for the accuracy of statements and claims made in this HPD and for compliance with the HPD standard noted.