Section 1: Summary

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
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?
- Yes
- No

All Substances Above the Threshold Indicated Are:

Characterized
- Yes Ex/SC
- Yes
- No

% weight and role provided for all substances.

Screened
- Yes Ex/SC
- Yes
- No

All substances screened using Priority Hazard Lists with results disclosed.

Identified
- Yes Ex/SC
- Yes
- No

One or more substances not disclosed by Name (Specific or Generic) and Identifier and/or one or more Special Condition did not follow guidance.

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
--- | --- | --- | --- | ---
LATICRETE® STRATA_HEAT THERMAL PACK | GRAPHITE (GRAPHITE) LT-UNK UNDISCLOSED NoGS UNDISCLOSED BM-1 | CAN UNDISCLOSED 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: TDS 251 "Low VOC LATICRETE Products / LEED Certification"

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?
- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2020-04-24
PUBLISHED DATE: 2020-10-16
EXPIRY DATE: 2023-04-24
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 2.2, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-2-standard](http://www.hpd-collaborative.org/hpd-2-2-standard)

<table>
<thead>
<tr>
<th>LATICRETE® STRATA_HEAT THERMAL PACK</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>PRODUCT THRESHOLD:</strong> 100 ppm</td>
</tr>
<tr>
<td><strong>RESIDUALS AND IMPURITIES CONSIDERED:</strong> Yes</td>
</tr>
<tr>
<td><strong>RESIDUALS AND IMPURITIES NOTES:</strong> Residuals and impurities are measured by quantitative methods and are only displayed when they are potentially greater than 100 ppm.</td>
</tr>
<tr>
<td><strong>OTHER PRODUCT NOTES:</strong> See SDS at <a href="http://www.laticrete.com">www.laticrete.com</a> for occupational exposure information.</td>
</tr>
<tr>
<td>Substance</td>
</tr>
<tr>
<td>-----------</td>
</tr>
<tr>
<td>GRAPHITE (GRAPHITE)</td>
</tr>
<tr>
<td>UNDISCLOSED</td>
</tr>
<tr>
<td>UNDISCLOSED</td>
</tr>
<tr>
<td>UNDISCLOSED</td>
</tr>
</tbody>
</table>
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>CERTIFICATION AND COMPLIANCE NOTES:</td>
<td>LATICRETE® STRATA_HEAT™ Thermal Pack has not been tested for VOC emissions.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>VOL CONTENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>TDS 251 &quot;Low VOC LATICRETE Products / LEED Certification&quot;</td>
</tr>
</tbody>
</table>

<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><a href="https://cdn.laticrete.com/~/media/support-and-downloads/technical-datasheets/tds251.ashx">https://cdn.laticrete.com/~/media/support-and-downloads/technical-datasheets/tds251.ashx</a></td>
</tr>
<tr>
<td>ISSUE DATE:</td>
<td>2020-10-13</td>
</tr>
<tr>
<td>EXPIRY DATE:</td>
<td>CERTIFIER OR LAB: LATICRETE</td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES:</td>
<td>Meets LEED v4.1 Credit “Low Emitting Materials” VOC Content Requirements per SCAQMD Rule 1168 (Tile Adhesive).</td>
</tr>
</tbody>
</table>

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

| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: | LATICRETE STRATA_HEAT Thermal Pack to be mixed with water only. This mix is then added to a LATICRETE adhesive as shown on product data sheet (e.g. LATICRETE 254 Platinum, LATICRETE 253 Gold or LATICRETE 4-XLT). |
| HPD URL: | No HPD Available |

LATICRETE 254 PLATINUM

| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: | LATICRETE STRATA_HEAT Thermal Pack, mixed with water, to be mixed with LATICRETE 254 Platinum following mix ratio and directions on product data sheet. |
| HPD URL: | https://cdn.laticrete.com/~/media/health-product-datasheets/tsis/254-grey-hpd.ashx |

LATICRETE 253 GOLD

| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: | LATICRETE STRATA_HEAT Thermal Pack, mixed with water, to be mixed with LATICRETE 253 Gold following mix ratio and directions on product data sheet. |
| HPD URL: | https://cdn.laticrete.com/~/media/health-product-datasheets/tsis/253-grey-hpd.ashx |

LATICRETE 4-XLT

| CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: | LATICRETE STRATA_HEAT Thermal Pack, mixed with water, to be mixed with LATICRETE 4-XLT following mix ratio and directions on product data sheet. |
| HPD URL: | https://cdn.laticrete.com/~/media/health-product-datasheets/tsis/laticrete-4-xlt-grey-hpd.ashx |

Section 5: General Notes

LATICRETE STRATA_HEAT Thermal Pack

hpdrepository.hpd-collaborative.org

HPD v2.2 created via HPDC Builder Page 4 of 6
LATICRETE® STRATA_HEAT Thermal Pack meets the Living Building Challenge v4.0 requirement that the product does not contain any of the Red Listed Materials or Chemicals. Specifically, LATICRETE STRATA_HEAT Thermal Pack 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 organo-phosphate 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.
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 Services
PHONE: 203-393-4619
EMAIL: wmhawkins@laticrete.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

KEY

Hazard Types

AQU Aquatic toxicity
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/corrosivity
GEN Gene mutation
GLO Global warming
LAN Land toxicity
MAM Mammalian/systemic/organ toxicity
MUL Multiple
NEU Neurotoxicity
NF Not found on Priority Hazard Lists
PBT Persistent, bioaccumulative, and toxic
PHY Physical hazard (flammable or reactive)
REP Reproductive
RES Respiratory sensitization
SKU Skin sensitization/irritation/corrosivity
UNK Unknown

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 (due to insufficient data)
LT-P1 List Translator Possible 1 (Possible Benchmark-1)
LT-1 List Translator 1 (Likely Benchmark-1)
LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)
NoGS No GreenScreen.

Recycled Types

PreC Pre-consumer recycled content
PostC Post-consumer recycled content
UNK Inclusion of recycled content is unknown
None Does not include recycled content

Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

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

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.