**HPD UNIQUE IDENTIFIER:** 25471  
**CLASSIFICATION:** 09 65 00 Resilient Flooring  
**PRODUCT DESCRIPTION:** PVC-free Striations and Migrations™ BBT™ deliver a sustainable tile flooring solution combining biophilic design, reduced maintenance, and long-term performance.

### Section 1: Summary

#### Basic Method / Product Threshold

<table>
<thead>
<tr>
<th>Inventory Reporting Format</th>
<th>Threshold level</th>
<th>Residuals/Impurities</th>
<th>All Substances Above the Threshold Indicated Are:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nested Materials Method</td>
<td>100 ppm</td>
<td>Considered</td>
<td>Characterized</td>
</tr>
<tr>
<td>Basic Method</td>
<td>1,000 ppm</td>
<td>Partially Considered</td>
<td>% weight and role provided for all substances.</td>
</tr>
<tr>
<td>Threshold Disclosed Per Material</td>
<td>Per GHS SDS</td>
<td>Not Considered</td>
<td>Screened</td>
</tr>
<tr>
<td>Other</td>
<td></td>
<td></td>
<td>All substances screened using Priority Hazard Lists with results disclosed.</td>
</tr>
</tbody>
</table>

**Residuals/Impurities provided for Residuals/Impurities?**

- Yes  
- No

**Explanation(s) provided for Residuals/Impurities?**

- Yes  
- No

**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.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>SUBSTANCE</th>
<th>RESIDUAL OR IMPURITY</th>
<th>GREENSCREEN SCORE</th>
<th>HAZARD TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIGRATIONS® AND STRIATIONS BIOBASED TILE (BBT™)</td>
<td>LT-UNK</td>
<td>BIOSTRIDE®</td>
<td>NoGS</td>
<td>Titanium Dioxide LT-1</td>
</tr>
</tbody>
</table>

**VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

**CERTIFICATIONS AND COMPLIANCE**

See Section 3 for additional listings.  
VOC emissions: FloorScore®  
LCA: Environmental Product Declaration

**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:** 2021-07-21  
**PUBLISHED DATE:** 2021-07-21  
**EXPIRY DATE:** 2024-07-21
### Migrations® and Striations Biobased Tile (BBT™)

**Product Threshold:** 1000 ppm  
**Residuals and Impurities Considered:** Yes  
**Residuals and Impurities Notes:** Residuals/impurities are quantitatively measured and are displayed in the HPD when greater than 1000 ppm.  
**Other Product Notes:** For more information on this product visit: https://www.armstrongflooring.com/commercial/en-us/products/bio-flooring.html

### Calcium Carbonate (Limestone)

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE</th>
<th>%: 75.0000 - 78.0000</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: Unknown</th>
<th>Substance Role: Filler</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
None found  
**WARNINGS**  
No warnings found on HPD Priority Hazard Lists  
**SUBSTANCE NOTES:** Limestone filler

### Biostride® Polymer

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE</th>
<th>%: 11.0000 - 14.0000</th>
<th>GS: NoGS</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>Substance Role: Binder</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
None found  
**WARNINGS**  
No warnings found on HPD Priority Hazard Lists  
**SUBSTANCE NOTES:** Bio-based (corn) binder

### Titanium Dioxide

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE</th>
<th>%: 0.5000 - 1.0000</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: Unknown</th>
<th>Substance Role: Pigment</th>
</tr>
</thead>
</table>

**HAZARD TYPE**  
None found  
**WARNINGS**  
No warnings found on HPD Priority Hazard Lists  
**SUBSTANCE NOTES:** Bio-based (corn) binder
<table>
<thead>
<tr>
<th>HAZARD TYPE</th>
<th>AGENCY AND LIST TITLES</th>
<th>WARNINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAN</td>
<td>EU - GHS (H-Statements)</td>
<td>H351 - Suspected of causing cancer</td>
</tr>
<tr>
<td>CAN</td>
<td>US CDC - Occupational Carcinogens</td>
<td>Occupational Carcinogen</td>
</tr>
<tr>
<td>CAN</td>
<td>CA EPA - Prop 65</td>
<td>Carcinogen - specific to chemical form or exposure route</td>
</tr>
<tr>
<td>CAN</td>
<td>IARC</td>
<td>Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources</td>
</tr>
<tr>
<td>CAN</td>
<td>MAK</td>
<td>Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value</td>
</tr>
<tr>
<td>END</td>
<td>TEDX - Potential Endocrine Disruptors</td>
<td>Potential Endocrine Disruptor</td>
</tr>
<tr>
<td>CAN</td>
<td>MAK</td>
<td>Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Titanium dioxide is listed as a hazard in respirable form. Titanium dioxide is not in a respirable form in the final product.

**2-NAPHTHALENECARBOXAMIDE, N,N'-(2-CHLORO-1,4-PHENYLENE)BIS[4-[(2,5-DICHLOROPHENYL)AZO]-3-HYDROXY]-**

ID: 5280-78-4

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2021-07-21 11:50:09</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.0000 - 0.1000</td>
<td>GS: LT-UNK</td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: Unknown</td>
<td>SUBSTANCE ROLE: Pigment</td>
</tr>
<tr>
<td>None found</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Red pigment. Pigments vary based on pattern.

**C. I. PIGMENT BLUE 15**

ID: 147-14-8

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2021-07-21 11:50:09</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.0000 - 0.1000</td>
<td>GS: BM-3</td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: Unknown</td>
<td>SUBSTANCE ROLE: Pigment</td>
</tr>
<tr>
<td>None found</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Pigments vary based on pattern.

**C.I. PIGMENT YELLOW 42**

ID: 51274-00-1

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>Pharos Chemical and Materials Library</th>
<th>HAZARD SCREENING DATE: 2021-07-21 11:50:10</th>
</tr>
</thead>
<tbody>
<tr>
<td>%: 0.0000 - 0.1000</td>
<td>GS: LT-UNK</td>
<td>RC: None</td>
</tr>
<tr>
<td></td>
<td>NANO: Unknown</td>
<td>SUBSTANCE ROLE: Pigment</td>
</tr>
<tr>
<td>None found</td>
<td>AGENCY AND LIST TITLES</td>
<td>WARNINGS</td>
</tr>
</tbody>
</table>

**SUBSTANCE NOTES:** Pigments vary based on pattern.
### DIIRON TRIOXIDE

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2021-07-21 11:50:10

<table>
<thead>
<tr>
<th>%:</th>
<th>GS: BM-1</th>
<th>RC: None</th>
<th>NANO: Unknown</th>
<th>SUBSTANCE ROLE: Pigment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0000 - 0.1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HAZARD TYPE** | AGENCY AND LIST TITLES | WARNINGS
---|---|---
CAN | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

**SUBSTANCE NOTES:** Red pigment. Pigments vary based on pattern.

### IRON OXIDE (Fe3O4)

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2021-07-21 11:50:11

<table>
<thead>
<tr>
<th>%:</th>
<th>GS: BM-1</th>
<th>RC: None</th>
<th>NANO: Unknown</th>
<th>SUBSTANCE ROLE: Pigment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0000 - 0.1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HAZARD TYPE** | AGENCY AND LIST TITLES | WARNINGS
---|---|---
CAN | MAK | Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

**SUBSTANCE NOTES:** Black pigment. Pigments vary based on pattern.

### QUINO[2,3-B]ACRIDINE-7,14-DIONE, 5,12-DIHYDRO-

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2021-07-21 11:50:11

<table>
<thead>
<tr>
<th>%:</th>
<th>GS: LT-UNK</th>
<th>RC: None</th>
<th>NANO: Unknown</th>
<th>SUBSTANCE ROLE: Pigment</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.0000 - 0.1000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HAZARD TYPE** | AGENCY AND LIST TITLES | WARNINGS
---|---|---
None found | | No warnings found on HPD Priority Hazard Lists

**SUBSTANCE NOTES:** Red pigment. Pigments vary based on pattern.
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

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Jackson, MS
CERTIFICATE URL: https://www.armstrongflooring.com/pdbupimages-flr/220314.pdf
ISSUE DATE: 2020-09-01
EXPIRY DATE: 2021-08-31
CERTIFIER OR LAB: SCS Global Services

CERTIFICATION AND COMPLIANCE NOTES:

Environmental Product Declaration

CERTIFYING PARTY: Third Party
APPLICABLE FACILITIES: Jackson, MS
CERTIFICATE URL: https://www.armstrongflooring.com/pdbupimages-flr/220749.pdf
ISSUE DATE: 2019-12-20
EXPIRY DATE: 2024-12-20
CERTIFIER OR LAB: ASTM International

CERTIFICATION AND COMPLIANCE NOTES:

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.

ADHESIVES RECOMMENDED FOR INSTALLATION

HPD URL: No HPD available
CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:
Full-Spread Adhesives: S-525 or S-700 See www.armstrongflooring.com for more information.

Section 5: General Notes

This HPD is provided solely for the intended recipient in connection with its assessment of products and for no other purpose. In providing information, Armstrong Flooring expresses no opinion and makes no representations as to the applicability, suitability, accuracy or completeness of the declaration form, or the standards, rules, classifications, warnings, or criteria utilized or referenced therein. Information herein is qualified in the entirety by reference to the applicable product Safety Data Sheet (SDS) which can be located at www.armstrongflooring.com, as well as by the additional ingredient information provided for specified substances. Please refer to the Armstrong Flooring website for more information on this product.
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
- **MAM** Mammalian/systemic/organ toxicity
- **MUL** Multiple
- **NEU** Neurotoxicity
- **NF** Not found on Priority Hazard Lists
- **OZO** Ozone depletion
- **PHY** Physical hazard (flammable or reactive)
- **RES** Respiratory sensitization
- **SKI** 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.