Marmoleum Modular
by Forbo Flooring Systems

Health Product
Declaration v2.2
created via: HPDC Online Builder

HPD UNIQUE IDENTIFIER: 26218
CLASSIFICATION: 09 65 13 Resilient Tile Flooring

PRODUCT DESCRIPTION:
Marmoleum Modular is a homogeneous floor covering made from natural ingredients including linseed oil, resin binders, wood flour, limestone and dry pigments. They are mixed and then calendared onto a polyester backing to ensure optimum dimensional stability. Marmoleum features Topshield2, which is a high performance, double UV cured factory applied finish that makes the product “occupancy ready” after installation. The double UV cured layer technology delivers color clarity and vibrancy, along with extraordinary wear performance by providing a surface that can be repaired after accidents or restored after years of intensive use. The thickness of Marmoleum Modular varies by collection. The standard thickness of MCT is 2.0mm (0.08”), is available in 13.11” x 13.11” (33.3 cm x 33.3 cm) tiles. The standard thickness of Marmoleum Modular is 2.5mm (1/10”) and is available in three different tile sizes: 9.8” x 9.8” (25 cm x 25 cm), 9.8” x 19.69” (25 cm x 50 cm), and 19.69” x 19.69” (50 cm x 50 cm). The standard The thickness of Marmoleum Modular Striato is 2.5mm (1/10”) and is available in 9.8” x 19.69” (25 cm x 50 cm), 9.8” x 39.37” (25 cm x 100 cm), and 19.69” x 19.69” (50 cm x 50 cm) tiles.

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

% weight and role provided for all substances.

- Yes Ex/SC
- Yes
- No

Screened

- Yes Ex/SC
- Yes
- No

All substances screened using Priority Hazard Lists with results disclosed.

- Yes Ex/SC
- Yes
- No

Identified

- Yes Ex/SC
- Yes
- No

All substances disclosed by Name (Specific or Generic) and Identifier.

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
MARMOLEUM MODULAR | LIMESTONE BM-3dg | CELLULOSE PULP (CELLULOSE PULP (SC: WOOD FLOUR)) NOCS TALL OIL LT-P1 | SKI RES | MUL POLYETHYLENE TEREPTHALATE (PET) LT-UNK GUM ROSIN LT-P1 | SKI FERRIC OXIDE YELLOW LT-UNK IRON OXIDE BM-1 | CAN FERRIC OXIDE BM-1 | CAN POLYURETHANE FOAMS LT-UNK 2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH ETHYL 2-PROPENOATE AND METHYL 2-METHYL-2-PROPENOATE LT-1 CAN | END |

Número de Greenscreen BM-4/BM3 contenidos ... 0

Comentarios más preocupantes GreenScreen Benchmark o List translator Score ... BM-1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

Percentage (%) ranges for ingredients are used as a means of keeping the exact formulations proprietary.

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: CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom & Office scenario

LCA: Environmental Product Declaration (EPD) by UL - Industry Generic

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients Option 1

Preparador: Self-Prepared
Verificador: 
Verificación: 
Fecha de evaluación: 2021-10-08
Fecha de publicación: 2021-10-08
Fecha de vencimiento: 2024-10-08

Third Party Verified

- Yes
- No
## 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 2.2, available on the HPDC website at: [www.hpdcollaborative.org/hpd-2-2-standard](http://www.hpdcollaborative.org/hpd-2-2-standard)

### MARMOLEUM MODULAR

- **Product Threshold:** 1000 ppm
- **Residuals and Impurities Considered:** No
- **Residuals and Impurities Notes:** No residuals or impurities are expected to be present in the product at or above the reporting threshold.
- **Other Product Notes:** N/A

#### LIMESTONE

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%:</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>Substance Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-08 15:20:43</td>
<td>24.7800 - 25.7800</td>
<td>BM-3dg</td>
<td>None</td>
<td>No</td>
<td>Filler</td>
</tr>
</tbody>
</table>

**Warnings:** No warnings found on HPD Priority Hazard Lists

**Substance Notes:**

**Category:** Tree-based materials – wood planks/stripes/pieces, bark, wood chips, and other wood products. This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

**Cellulose:** mix of different species of wood. The specific brand name that Forbo Flooring Systems uses in Marmoleum is Lignocel C 120. LIGNOCEL® C 120 is not classified as dangerous according to directive 67/548/EEC, directive 1999/45/EC and regulation 1272/2008 (CLP). Information pertaining to special dangers for human and environment: Adverse physiochemical effects: Capable of causing dust explosions. Adverse human health effects and symptoms: N/A Adverse environmental effects: N/A Other adverse hazards: Substance is combustible. Substance related information: EC-No: N/A INDEX-NO: N/A REACH Registration No: N/A Purity: 100 % Synonyms: N/A Stabilizers: N/A Hazardous Impurities: N/A

### CELLULOSE PULP (CELLULOSE PULP (SC: WOOD FLOUR))

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%:</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>Substance Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-08 15:20:43</td>
<td>24.2800 - 25.2800</td>
<td>NoGS</td>
<td>PreC</td>
<td>No</td>
<td>Filler</td>
</tr>
</tbody>
</table>

**Warnings:** No warnings found on HPD Priority Hazard Lists

**Substance Notes:**

**Category:** Tree-based materials – wood planks/stripes/pieces, bark, wood chips, and other wood products. This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

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### LINSEED OIL

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%:</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>Substance Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-08 15:20:44</td>
<td>23.1000 - 24.1000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Binder</td>
</tr>
</tbody>
</table>

**Warnings:** No warnings found on HPD Priority Hazard Lists

**Substance Notes:**

**Category:** Tree-based materials – wood planks/stripes/pieces, bark, wood chips, and other wood products. This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

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### TALL OIL

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%:</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>Substance Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-08 15:20:44</td>
<td>7.7600 - 8.7600</td>
<td>LT-P1</td>
<td>PreC</td>
<td>No</td>
<td>Binder</td>
</tr>
</tbody>
</table>

**Warnings:** Sensitizing Substance Sh - Danger of skin sensitization Asthmagen (Rs) - sensitizer-induced

**Substance Notes:**

**Category:** Tree-based materials – wood planks/stripes/pieces, bark, wood chips, and other wood products. This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

**Cellulose:** mix of different species of wood. The specific brand name that Forbo Flooring Systems uses in Marmoleum is Lignocel C 120. LIGNOCEL® C 120 is not classified as dangerous according to directive 67/548/EEC, directive 1999/45/EC and regulation 1272/2008 (CLP). Information pertaining to special dangers for human and environment: Adverse physiochemical effects: Capable of causing dust explosions. Adverse human health effects and symptoms: N/A Adverse environmental effects: N/A Other adverse hazards: Substance is combustible. Substance related information: EC-No: N/A INDEX-NO: N/A REACH Registration No: N/A Purity: 100 % Synonyms: N/A Stabilizers: N/A Hazardous Impurities: N/A

### POLYETHYLENE TEREPHTHALATE (PET)

<table>
<thead>
<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
<th>%:</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>Substance Role</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pharos Chemical and Materials Library</td>
<td>2021-10-08 15:20:44</td>
<td>25038-59-9</td>
<td>LT-P1</td>
<td>PreC</td>
<td>No</td>
<td>Binder</td>
</tr>
</tbody>
</table>

**Warnings:** Sensitizing Substance Sh - Danger of skin sensitization Asthmagen (Rs) - sensitizer-induced

**Substance Notes:**

**Category:** Tree-based materials – wood planks/stripes/pieces, bark, wood chips, and other wood products. This disclosure does not provide information on allergens, hyper-accumulation of metals, production of any toxic substances during normal metabolic activities, pesticides, and other potential hazards or sources of hazards which may be found in certain biological materials.

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Marmoleum Modular

[hpdcollaborative.org](http://hpdcollaborative.org)
GUM ROSIN

FERRIC OXIDE YELLOW

IRON OXIDE

FERRIC OXIDE

POLYURETHANE FOAMS

2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH ETHYL 2-PROPENOATE AND METHYL 2-METHYL-2-PROPENOATE
<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:** Finish contains no Isocyanates.

**TITANIUM DIOXIDE**

<table>
<thead>
<tr>
<th>ID:</th>
<th>13463-67-7</th>
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</table>

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2021-10-08 15:20:48

<table>
<thead>
<tr>
<th>%: 0.1000 - 4.0400</th>
<th>GS: LT-1</th>
<th>RC: None</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Pigment</th>
</tr>
</thead>
</table>

### CAN
- US CDC - Occupational Carcinogens: Occupational Carcinogen
- CA EPA - Prop 65: Carcinogen - specific to chemical form or exposure route
- IARC: Group 2B - Possibly carcinogenic to humans - inhaled from occupational sources
- MAK: Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
- MAK: Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels
- TEDX - Potential Endocrine Disruptors: Potential Endocrine Disruptor
- EU - GHS (H-Statements): H351 - Suspected of causing cancer [Carcinogenicity - Category 2]

**SUBSTANCE NOTES:** The titanium dioxide (TiO2) is bound within the product, requiring no further labeling. Identified on the US EPA Safer Chemical Ingredient List. Form-specific hazards: airborne particles of respirable size – occupational setting. Specific guidelines are being created to address known issues related to transparency and disclosure for several materials ("Special Conditions"), including those with Form-Specific Hazards such as Titanium Dioxide. This HPD will be updated as appropriate when these guidelines become available. The Material Health Harmonization Task Group convened by the USGBC states that pigmentary titanium dioxide was "determined to be Benchmark 2 using the full GS (GreenScreen) method" hpdrepository.hpd-collaborative.org HPD v2.1 created via HPDC Builder Page 2 of 12 (http://ow.ly/Z5ken).
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.

<table>
<thead>
<tr>
<th>VOC EMISSIONS</th>
<th>CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom &amp; Office scenario</th>
</tr>
</thead>
<tbody>
<tr>
<td>APPLICABLE FACILITIES:  All</td>
<td></td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES:  LCA</td>
<td></td>
</tr>
<tr>
<td>APPLICABLE FACILITIES:  All</td>
<td></td>
</tr>
<tr>
<td>CERTIFICATION AND COMPLIANCE NOTES:  Environmental Product Declaration (EPD) by UL - Industry Generic</td>
<td></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.

<table>
<thead>
<tr>
<th>Product</th>
<th>HPD URL</th>
<th>Condition When Recommended or Required and/or Other Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORBO T 940 ADHESIVE (VOC 0.00 G/L)</td>
<td>No HPD available</td>
<td>Standard recommended adhesive for installation.</td>
</tr>
<tr>
<td>FORBO EZ-ON 100 ADHESIVE (VOC 0.00 G/L)</td>
<td>No HPD Available</td>
<td>Alternative adhesive that can be used for installation.</td>
</tr>
<tr>
<td>FORBO SUSTAIN 1195 ADHESIVE (VOC 0.00 G/L)</td>
<td>No HPD Available</td>
<td>Alternative adhesive that can be used for installation.</td>
</tr>
<tr>
<td>FORBO SUSTAIN 1299 ADHESIVE (VOC 0.00 G/L)</td>
<td>No HPD available</td>
<td>Alternative adhesive that can be used with installation.</td>
</tr>
<tr>
<td>FORBO 660 ADHESIVE (VOC 12.00 G/L)</td>
<td><a href="http://www.forboflooringna.com">http://www.forboflooringna.com</a></td>
<td>Alternative adhesive that can be used for installation.</td>
</tr>
<tr>
<td>FORBO ADHESIVE REMOVER</td>
<td>No HPD available</td>
<td>Can be used for adhesive residue removal post installation.</td>
</tr>
<tr>
<td>NEUTRAL PH CLEANER</td>
<td>No HPD available</td>
<td>Can be used for routine cleaning.</td>
</tr>
<tr>
<td>READY TO USE NEUTRAL PH CLEANER</td>
<td>No HPD available</td>
<td>Can be used for routine cleaning.</td>
</tr>
<tr>
<td>HEAVY DUTY CLEANER</td>
<td>No HPD available</td>
<td>Can be used for interim maintenance.</td>
</tr>
<tr>
<td>FORBO MOP ON RESTORER</td>
<td>No HPD available</td>
<td>Can be used for interim maintenance.</td>
</tr>
</tbody>
</table>
### FORBO SPRAY BUFF

**Condition When Recommended or Required and/or Other Notes:**
Can be used for interim maintenance.

**HPD URL:** No HPD available

### FORBO MATTE FINISH

**Condition When Recommended or Required and/or Other Notes:**
Can be used for interim maintenance.

**HPD URL:** No HPD available

### FORBO GLOSS FINISH

**Condition When Recommended or Required and/or Other Notes:**
Can be used for interim maintenance.

**HPD URL:** No HPD available

### FORBO WALL BASE

**Condition When Recommended or Required and/or Other Notes:**
Can be used with Marmoleum Modular installation using the recommended adhesive.

**HPD URL:** [http://www.forboflooringna.com](http://www.forboflooringna.com)

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**Section 5: General Notes**

Marmoleum Modular lines include the following:
Marmoleum Modular, Modular Striato, MCT (Marmoleum Composition Tile).
Marmoleum Modular contains no isocyanates.
MANUFACTURER INFORMATION

MANUFACTURER: Forbo Flooring Systems
ADDRESS: 8 Maplewood Drive
Hazle Township PA 18202, United States
WEBSITE: www.forboflooringna.com

CONTACT NAME: Shannon Wolski-Konecnik
TITLE: Product Support and Education Services Administrator
PHONE: 5704600319
EMAIL: shannon.wolski@forbo.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
  - OZO Ozone depletion
  - PBT Persistent, bioaccumulative, and toxic
  - PHY Physical hazard (flammable or reactive)
  - REP Reproductive
  - 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. HPD Open Standard v2.2 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.