Marmoleum Modular with Topshield2
by Forbo Flooring Systems

CLASSIFICATION: 09 65 00.00 Finishes: Resilient 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 9.8" x 19.69" (25 cm x 50 cm) and 9.8" x 39.37" (25 cm x 100 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
- Per OSHA MSDS
- Other

Residuals/Impurities
- Considered
- Partially Considered
- Not Considered

Are all substances above the threshold indicated:
- Characterized
- Yes
- No

Percent weight and role provided:
- Yes
- No

Screened
- Using Priority Hazard Lists with Results Disclosed:
- Yes
- No

Identified
- Name and Identifier Provided:
- 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.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

See Section 3 for additional listings.

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

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Material Ingredients, Option 1

Prepared: Self-Prepared

VERIFIER: VERIFICATION #: SCREENING DATE: 2018-10-16

PUBLISHED DATE: 2018-11-14

EXPiry DATE: 2021-10-16
### Marmoleum Modular with Topshield2

**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:**

<table>
<thead>
<tr>
<th>Component</th>
<th>ID</th>
<th>%</th>
<th>GS</th>
<th>RC</th>
<th>Nano</th>
<th>Role</th>
<th>HAZARDS</th>
<th>AGENCY(IES) WITH WARNINGS</th>
<th>SUBSTANCE NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cellulose Pulp (SC: Wood Flour)</td>
<td>65996-61-4</td>
<td>24.2800 - 25.2800</td>
<td>NoGS</td>
<td>PreC</td>
<td>No</td>
<td>Filler</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td>Category = Tree-based materials – wood planks/strips/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 is 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</td>
</tr>
<tr>
<td>Linseed Oil</td>
<td>8001-26-1</td>
<td>23.1000 - 24.1000</td>
<td>NoGS</td>
<td>None</td>
<td>No</td>
<td>Binder</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
<tr>
<td>Tall Oil</td>
<td>8002-26-4</td>
<td>7.7600 - 8.7600</td>
<td>LT-P1</td>
<td>PreC</td>
<td>No</td>
<td>Binder</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
<tr>
<td>Polyethylene Terephthalate (PET)</td>
<td>25038-59-9</td>
<td>7.0000 - 8.0000</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Backing</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
<tr>
<td>Gum Rosin</td>
<td>8050-09-7</td>
<td>4.0400</td>
<td>LT-P1</td>
<td>None</td>
<td>No</td>
<td>Binder</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
<tr>
<td>Ferric Oxide Yellow</td>
<td>51274-00-1</td>
<td>0.1000 - 4.0400</td>
<td>LT-UNK</td>
<td>None</td>
<td>No</td>
<td>Pigment</td>
<td>None Found</td>
<td>No warnings found on HPD Priority lists</td>
<td></td>
</tr>
</tbody>
</table>
HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found
No warnings found on HPD Priority lists

SUBSTANCE NOTES:

IRON OXIDE

ID: 1317-61-9

%: 0.1000 - 4.0400

GS: LT-UNK

RC: None

NANO: No

ROLE: Pigment

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES:

FERRIC OXIDE

ID: 1309-37-1

%: 0.1000 - 4.0400

GS: BM-2

RC: None

NANO: No

ROLE: Pigment

CANCER

MAK

Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification

SUBSTANCE NOTES:

POLYURETHANE FOAMS

ID: 9009-54-5

%: 0.1000 - 0.3000

GS: LT-UNK

RC: UNK

NANO: No

ROLE: Finish

None Found
No warnings found on HPD Priority lists

SUBSTANCE NOTES: Finish contains no Isocyanates.

2-PROPENOIC ACID, 2-METHYL-, POLYMER WITH ETHYL 2-PROPENOATE AND METHYL 2-METHYL-2-PROPENOATE

ID: 25133-97-5

%: 0.1000 - 0.3000

GS: LT-UNK

RC: UNK

NANO: No

ROLE: Finish

None Found
No warnings found on HPD Priority lists

SUBSTANCE NOTES: Finish contains no Isocyanates.

TITANIUM DIOXIDE

ID: 13463-67-7

%: 0.1000 - 4.0400

GS: LT-1

RC: None

NANO: No

ROLE: Pigment

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 2B - Possibility carcinogenic to humans - inhaled from occupational sources

ENDOCRINE

TEDX - Potential Endocrine Disruptors

Potential Endocrine Disruptor

CANCER

MAK

Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value

CANCER

MAK

Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels

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.

#### VOC EMISSIONS

<table>
<thead>
<tr>
<th>Certification and Compliance Notes:</th>
<th>Issue Date: 2014-11-14</th>
<th>Expiry Date:</th>
<th>Certifier or Lab: Berkeley Analytical</th>
</tr>
</thead>
<tbody>
<tr>
<td>CDPH Standard Method V1.2 (Section 01350/CHPS) - Classroom &amp; Office scenario</td>
<td>CERTIFYING PARTY: Third Party</td>
<td>CERTIFICATE URL:</td>
<td>APPLICABLE FACILITIES: All</td>
</tr>
<tr>
<td><strong>CERTIFYING PARTY:</strong> Third Party</td>
<td><strong>CERTIFICATE URL:</strong></td>
<td><strong>APPLICABLE FACILITIES:</strong> All</td>
<td><strong>CERTIFIER OR LAB:</strong> Berkeley Analytical</td>
</tr>
<tr>
<td>Environment Product Declaration (EPD) by UL - Industry Generic</td>
<td><strong>CERTIFYING PARTY:</strong> Third Party</td>
<td><strong>CERTIFICATE URL:</strong> <a href="https://forbo.blob.core.windows.net/forbodocuments/124851/EPD%20Marmoleum%20Modular%202018.01.05.pdf">chrome-extension://oemmndcbldboiebfnladdacbdfmadadm/https://forbo.blob.core.windows.net/forbodocuments/124851/EPD%20Marmoleum%20Modular%202018.01.05.pdf</a></td>
<td><strong>APPLICABLE FACILITIES:</strong> All</td>
</tr>
</tbody>
</table>

**CERTIFICATION AND COMPLIANCE NOTES:**

<table>
<thead>
<tr>
<th>LCA</th>
<th>Environmental Product Declaration (EPD) by UL - Industry Generic</th>
</tr>
</thead>
<tbody>
<tr>
<td>CERTIFYING PARTY: Third Party</td>
<td>CERTIFICATE URL: chrome-extension://oemmndcbldboiebfnladdacbdfmadadm/<a href="https://forbo.blob.core.windows.net/forbodocuments/124851/EPD%20Marmoleum%20Modular%202018.01.05.pdf">https://forbo.blob.core.windows.net/forbodocuments/124851/EPD%20Marmoleum%20Modular%202018.01.05.pdf</a></td>
</tr>
<tr>
<td><strong>APPLICABLE FACILITIES:</strong> All</td>
<td><strong>CERTIFIER OR LAB:</strong> Berkeley Analytical</td>
</tr>
</tbody>
</table>

**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.

#### FORBO T 940 ADHESIVE (VOC 0.00 G/L)

- **HPD URL:** No HPD available
- **CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:** Standard recommended adhesive for installation.

#### FORBO SUSTAIN 885M ADHESIVE (VOC 0.00 G/L)

- **HPD URL:** No HPD Available
- **CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:** Alternative adhesive that can be used for installation.

#### FORBO SUSTAIN 1195 ADHESIVE (VOC 0.00 G/L)

- **HPD URL:** No HPD Available
- **CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:** Alternative adhesive that can be used for installation.

#### FORBO SUSTAIN 1299 ADHESIVE (VOC 0.00 G/L)

- **HPD URL:** No HPD available
- **CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:** Alternative adhesive that can be used with installation.

#### FORBO 660 ADHESIVE (VOC 12.00 G/L)

- **HPD URL:** [http://www.forboflooringna.com](http://www.forboflooringna.com)
- **CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:** Alternative adhesive that can be used for installation.

#### FORBO ADHESIVE REMOVER

- **HPD URL:** No HPD available
- **CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:** Can be used for adhesive residue removal post installation.

#### NEUTRAL PH CLEANER

- **HPD URL:** No HPD available
- **CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:** Can be used for routine cleaning.

#### READY TO USE NEUTRAL PH CLEANER

- **HPD URL:** No HPD available
- **CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:** Can be used for routine cleaning.

#### HEAVY DUTY CLEANER

- **HPD URL:** No HPD available
- **CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:** Can be used for interim maintenance.

#### FORBO MOP ON RESTORER

- **HPD URL:** No HPD available
- **CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:**
<table>
<thead>
<tr>
<th>Material</th>
<th>HPD URL</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FORBO SPRAY BUFF</td>
<td>No HPD available</td>
<td>Can be used for interim maintenance.</td>
</tr>
<tr>
<td>FORBO MATTE FINISH</td>
<td>No HPD available</td>
<td>Can be used for interim maintenance.</td>
</tr>
<tr>
<td>FORBO GLOSS FINISH</td>
<td>No HPD available</td>
<td>Can be used for interim maintenance.</td>
</tr>
<tr>
<td>FORBO WALL BASE</td>
<td><a href="http://www.forboflooringna.com">http://www.forboflooringna.com</a></td>
<td>Can be used with Marmoleum Modular installation using the recommended adhesive.</td>
</tr>
</tbody>
</table>

**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
TITLE: Product Support and Education Services Administrator
PHONE: 5704500319
EMAIL: shannon.wolski@forbo.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
AGU Aquatic toxicity
CAN Cancer
DEV Developmental toxicity
END Endocrine activity
EYE Eye irritation/como/sity
GEN Gene mutation
GLO Global warming
MAM Mammalian/systemic/organ toxicity
MUL Multiple hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SIK Skin sensitization/irritation/como/sity
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)

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

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.