

CLASSIFICATION: 09 68 13.00 Finishes: Tile Carpeting

PRODUCT DESCRIPTION: Flotex Modular is a high performance flocked carpet floor covering. It is made of 70 million fibers of Nylon 6.6 per square meter. The fibers are flocked into an adhesive layer, which is compounded into the recycled vinyl cushioned backing. Flotex Modular has an intermediate fiberglass layer which provides stability. Flotex Modular is 5.3mm (0.21") thick. Sizes available are 50cm x 50cm (19.69" x 19.69") or 25cm x 100cm (9.8" x 39.37") and vary by collection.

Section 1: Summary

Basic Method / Product Threshold

CONTENT INVENTORY

Inventory Reporting Format

- Nested Materials Method
- Basic Method

Threshold level

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

Residuals/Impurities

- Considered
- Partially Considered
- Not Considered

Explanation(s) provided for Residuals/Impurities?

- Yes
- No

Are All Substances Above the Threshold Indicated:

Characterized

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.

[MATERIAL](#) | [SUBSTANCE](#) | [RESIDUAL OR IMPURITY](#)

[GREENSCREEN SCORE](#) | [HAZARD TYPE](#)

FLOTEX MODULAR [POST-CONSUMER PVC SOURCED FROM CO-MINGLED SCRAP **LT-P1** | RES LIMESTONE; CALCIUM CARBONATE (POST-CONSUMER) **LT-UNK** BIS(2-ETHYLHEXYL) TEREPHTHALATE **BM-3** POLYVINYL CHLORIDE (PVC) **LT-P1** | RES LIMESTONE; CALCIUM CARBONATE **LT-UNK** TITANIUM DIOXIDE **LT-1** | CAN | END GLASS / MINERAL FIBER (POST-CONSUMER RECYCLED) **LT-UNK** BENZENE, MONO-C10-13-ALKYL DERIVS., DISTN. RESIDUES **LT-UNK** POLYMERIC TDI **LT-P1** | MUL | RES | CAN 1-HEXANOL, 2-ETHYL-, PHOSPHATE **LT-P1** | END | MUL 2,4-/2,6-TOLUENE DIISOCYANATE MIXTURE (TDI 80/20) **LT-1** | CAN | MUL | SKI | EYE | MAM | RES ANTIMONY TRIOXIDE **BM-1** | CAN | MUL ZINC BORATE **BM-1** | MUL POLYETHYLENE TEREPHTHALATE (PET) **LT-UNK** CELLULOSE, MICROCRYSTALLINE **NoGS**]

Number of Greenscreen BM-4/BM3 contents ... 1

Contents highest concern GreenScreen Benchmark or 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

Third Party Verified?

- Yes
- No

PREPARER: **Self-Prepared**

VERIFIER:

VERIFICATION #:

SCREENING DATE: **2018-10-26**

PUBLISHED DATE: **2018-10-26**

EXPIRY DATE: **2021-10-26**

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, available on the HPDC website at www.hpd-collaborative.org/hpd-2-1-standard

FLOTEX 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:

POST-CONSUMER PVC SOURCED FROM CO-MINGLED SCRAP

ID: 9002-86-2

#: 17.4600 GS: LT-P1 RC: PostC NANO: No ROLE: Recycled Vinyl Backing

HAZARDS: AGENCY(IES) WITH WARNINGS:

RESPIRATORY AOEC - Asthmagens Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Recycled content material of well-defined composition that can be identified by the CAS numbers of the contained chemical substances must be inventoried according to the HPD standard inventory method (the Special Condition for Mixed Recycled Content does not apply).

LIMESTONE; CALCIUM CARBONATE (POST-CONSUMER)

ID: 1317-65-3

#: 14.8100 GS: LT-UNK RC: PostC NANO: No ROLE: Recycled Backing

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

BIS(2-ETHYLHEXYL) TEREPHTHALATE

ID: 6422-86-2

#: 14.1500 - 15.4900 GS: BM-3 RC: None NANO: No ROLE: Plasticiser

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

POLYVINYL CHLORIDE (PVC)

ID: 9002-86-2

#: 14.1000 - 15.4400 GS: LT-P1 RC: None NANO: No ROLE: Polymer

HAZARDS: AGENCY(IES) WITH WARNINGS:

RESPIRATORY AOEC - Asthmagens Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES:

LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

#: 13.6500 - 14.9900 GS: LT-UNK RC: UNK NANO: No ROLE: Filler

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority lists

SUBSTANCE NOTES:

TITANIUM DIOXIDE

ID: 13463-67-7

#: 4.5800 - 5.9200 GS: LT-1 RC: None NANO: No ROLE: Nylon Fiber

HAZARDS: AGENCY(IES) WITH WARNINGS:

CANCER US CDC - Occupational Carcinogens Occupational Carcinogen

CANCER CA EPA - Prop 65 Carcinogen - specific to chemical form or exposure route

CANCER IARC Group 2B - Possibly 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>).

GLASS / MINERAL FIBER (POST-CONSUMER RECYCLED)

ID: 65997-17-3

%: 2.2200 - 3.5600	GS: LT-UNK	RC: PostC	NANO: No	ROLE: Fiberglass
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES:				

BENZENE, MONO-C10-13-ALKYL DERIVS., DISTN. RESIDUES

ID: 84961-70-6

%: 0.4300 - 1.7700	GS: LT-UNK	RC: None	NANO: No	ROLE: Viscosity Modifier
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES:				

POLYMERIC TDI

ID: 9017-01-0

%: 0.0100 - 1.5800	GS: LT-P1	RC: None	NANO: No	ROLE: Bonding Agent
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published		
RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage		
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value		
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization		
SUBSTANCE NOTES:				

1-HEXANOL, 2-ETHYL-, PHOSPHATE

ID: 78-42-2

%: 0.0100 - 1.5800	GS: LT-P1	RC: None	NANO: No	ROLE: Bonding Agent
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
ENDOCRINE	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
SUBSTANCE NOTES:				

2,4-/2,6-TOLUENE DIISOCYANATE MIXTURE (TDI 80/20)

ID: 26471-62-5

%: 0.0100 - 1.5800	GS: LT-1	RC: None	NANO: No	ROLE: Bonding Agent
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CANCER	IARC	Group 2B - Possibly carcinogenic to humans		
CANCER	CA EPA - Prop 65	Carcinogen		
CANCER	US NIH - Report on Carcinogens	Reasonably Anticipated to be Human Carcinogen		
RESTRICTED LIST	US EPA - PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published		
SKIN IRRITATION	EU - GHS (H-Statements)	H315 - Causes skin irritation		
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction		
EYE IRRITATION	EU - GHS (H-Statements)	H319 - Causes serious eye irritation		
MAMMALIAN	EU - GHS (H-Statements)	H330 - Fatal if inhaled		
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled		
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer		
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters		

RESPIRATORY	US EPA - PPT Chemical Action Plans	Inhalation sensitizer causing asthma and lung damage
CANCER	MAK	Carcinogen Group 3A - Evidence of carcinogenic effects but not sufficient to establish MAK/BAT value
RESPIRATORY	MAK	Sensitizing Substance Sa - Danger of airway sensitization
RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization
SUBSTANCE NOTES:		

ANTIMONY TRIOXIDE

ID: 1309-64-4

%: 0.0100 - 1.6700	GS: BM-1	RC: None	NANO: No	ROLE: Fire Retardant
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CANCER	IARC	Group 2B - Possibly carcinogenic to humans		
CANCER	CA EPA - Prop 65	Carcinogen		
CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer		
MULTIPLE	ChemSec - SIN List	CMR - Carcinogen, Mutagen &/or Reproductive Toxicant		
CANCER	MAK	Carcinogen Group 2 - Considered to be carcinogenic for man		
CANCER	Japan - GHS	Carcinogenicity - Category 1B		
SUBSTANCE NOTES:				

ZINC BORATE

ID: 1332-07-6

%: 0.0100 - 1.6700	GS: BM-1	RC: None	NANO: No	ROLE: Fire Retardant
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MULTIPLE	German FE A - Substances Hazardous to Waters	Class 2 - Hazard to Waters		
SUBSTANCE NOTES:				

POLYETHYLENE TEREPHTHALATE (PET)

ID: 25038-59-9

%: 0.0100 - 1.8900	GS: LT-UNK	RC: None	NANO: No	ROLE: Fleece
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES:				

CELLULOSE, MICROCRYSTALLINE

ID: 9004-34-6

%: 0.0100 - 1.8900	GS: NoGS	RC: None	NANO: No	ROLE: Fleece
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority lists			
SUBSTANCE NOTES:				

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

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

CERTIFYING PARTY: **Third Party**

ISSUE DATE: **2017-11-16**

EXPIRY DATE:

CERTIFIER OR LAB: **Berkeley Analytical**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES:

LCA

CERTIFYING PARTY: **Third Party**

APPLICABLE FACILITIES: **All**

CERTIFICATE URL: **chrome-**

extension://oemmnrcbldboiebnladdacbfmadadm/https://forbo.blob.core.windows.net/forbodocuments/22229/EPD%20Flotex%20Tile%20(Complexity,%20Integrity%20,%20PinStripe,%20Cirrus,%20

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 FRT 950 ADHESIVE (VOC 0.00 G/L)

HPD URL: **No HPD available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Standard recommended pressure sensitive adhesive used for releasable installation.

FORBO T 940 ADHESIVE (VOC 0.00 G/L)

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Alternate adhesive that can be used for a permanent 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 permanent 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 permanent installation.

FORBO FRS 885 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 permanent installation.

FORBO FST 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 for permanent installation.

FORBO 660 ADHESIVE (VOC 12.00 G/L)

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Alternative adhesive that can be used for permanent installation.

FORBO READY TO USE NUETRAL PH CLEANER

HPD URL: **No HPD Available**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Can be used for routine cleaning.

FORBO WALL BASE

HPD URL: **<http://www.forboflooringna.com>**

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Can be used with Forbo Flotex Modular Installation, using one of the approved adhesives.

Section 5: General Notes

Products lines that fall under the category of Flotex Modular are the following: Seagrass, Triad, Integrity², Complexity, Stratus, Cirrus, Pinstripe, Metro, Calgary, & Penang. Integrity², Complexity, Stratus, Cirrus, Pinstripe, Metro, Calgary, Penang are available in a 20" x 20" tile format. Seagrass & Triad are available in 39.37" x 9.48"

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

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

GreenScreen (GS)

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