SPARTACOTE® FLEX PURE™ by LATICRETE International

Health Product Declaration v2.1

created via: HPDC Online Builder

CLASSIFICATION: 09 67 23.00

PRODUCT DESCRIPTION: A low VOC and minimal-odor, fast-curing, two-part polyaspartic aliphatic polyurea sealer/finish coating for both decorative and protective applications. The material is applied in single or multiple coats by brush, roller or squeegee varying thicknesses to a variety of substrates including concrete and metal. It can be applied as a top coat employed within seamless multi-build chip/quartz seamless flooring systems.

Section 1: Summary

Basic Method / Product Threshold

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

Explanation(s) provided for Residuals/Impurities?

- ◉ Yes ○ No

Are All Substances Above the Threshold Indicated:

Characterized ◉ Yes ○ No

Percent Weight and Role Provided?

Screened ◉ Yes ○ No

Using Priority Hazard Lists with Results Disclosed?

Identified ○ Yes ◉ No

Name and Identifier Provided?

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

SPARTACOTE® FLEX PURE™ [TETRAETHYL N,N'-(METHYLENEDICYCLOHEXANE-4,1-DIYL)BIS-DL-ASPARTATE (TETRAETHYL N,N'-(METHYLENEDICYCLOHEXANE-4,1-DIYL)BIS-DL-ASPARTATE) LT-UNK | SKI HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER (HDI HOMOPOLYMER) (HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER (HDI HOMOPOLYMER)) LT-P1 BIS(4-(1,2-BIS(ETHOXYCARBONYL)ETHYLAMINO)-3-METHYLCYCLOHEXYL)METHANE (BIS(4-(1,2-BIS(ETHOXYCARBONYL)ETHYLAMINO)-3-METHYLCYCLOHEXYL)METHANE) LT-UNK | SKI DIPROPYLENE GLYCOL METHYL ETHER ACETATE (DPMA) (DIPROPYLENE GLYCOL METHYL ETHER ACETATE (DPMA)) LT-UNK 2-BUTENEDIOIC ACID (E)-, DIETHYL ESTER (2-BUTENEDIOIC ACID (E)-, DIETHYL ESTER) LT-UNK COCONUT OIL (COCONUT OIL) NoGS 1,6-HEXAMETHYLENE DIISOCYANATE (1,6-HEXAMETHYLENE DIISOCYANATE) LT-UNK | RES | SKI | EYE | MAM DECANEDIOIC ACID, BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) ESTER; (DECANEDIOIC ACID, BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) ESTER;) LT-P1 | PBT | MUL POLY (OXY-1,2 ETHANEDIYL), ALPHA.-3[3-[3-(2H-BENZOTRIAZOL-2- YL)-5- (1, 1-D IMETHYLETHYL)-4-HYDROXYPHENYL]-1-OXOPROPYL], OMEGA.-[3-[3-(2 H-BENZOTRIAZOL-2-YL)-5-(1, 1-DIMETHYLETHYL)-4-HYDROYPHENOL]-1-OXOPROPOXY)- NoGS POLY (OXY-1 ,2-ETHANEDIYL), .ALPHA.-[3-[3(2H-BENZOTRIAZOL-2- YL)-5- (1,1-D IMETHYL)-4-HYDROXYPHENYL]-1-OXYPROPYL]. OMEGA. - HYDROXY- NoGS METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE (METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE) LT-P1 | MUL]

Number of Greenscreen BM-4/BM3 contents ... 0

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-P1

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This HPD was Created with Basic Inventory. Materials listed as Undisclosed in Section 2 is done to preserve integrity of formula and maintain competitive advantage. The component CAS# was used to identify associated hazards of these components.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

Material (g/l): 61 Regulatory (g/l): N/A

Does the product contain exempt VOCs: No

CERTIFICATIONS AND COMPLIANCE *See Section 3 for additional listings.*

VOC emissions: N/A

VOC content: TDS 251 "Low VOC LATICRETE Products / LEED Certification"

Are ultra-low VOC tints available: N/A

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: 2018-08-06
PUBLISHED DATE: 2018-08-06
EXPIRY DATE: 2021-08-06

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

SPARTACOTE® FLEX PURE™

PRODUCT THRESHOLD: 100 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: Residuals and impurities are measured by quantitative methods and are only displayed when they are potentially greater than 100 ppm.

OTHER PRODUCT NOTES: See SDS at https://laticrete.com for occupational exposure information.

TETRAETHYL N,N'-(METHYLENEDICYCLOHEXANE-4,1-DIYL)BIS-DL-ASPARTATE (TETRAETHYL N,N'-(METHYLENEDICYCLOHEXANE-4,1-DIYL)BIS-DL-ASPARTATE)

ID: 136210-30-5

%: 35.0000 - 40.0000 GS: LT-UNK RC: None NANO: No ROLE: Resin

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction

SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER (HDI HOMOPOLYMER) (HEXAMETHYLENE DIISOCYANATE HOMOPOLYMER (HDI HOMOPOLYMER))

ID: 28182-81-2

%: 35.0000 - 42.0000 GS: LT-P1 RC: None NANO: No ROLE: Activator

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

BIS(4-(1,2-BIS(ETHOXYCARBONYL)ETHYLAMINO)-3-METHYLCYCLOHEXYL)METHANE (BIS(4-(1,2-BIS(ETHOXYCARBONYL)ETHYLAMINO)-3-METHYLCYCLOHEXYL)METHANE)

ID: 136210-32-7

%: 10.0000 - 15.0000 GS: LT-UNK RC: None NANO: No ROLE: Resin

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
SKIN SENSITIZE	EU - GHS (H-Statements)	H317 - May cause an allergic skin reaction

SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

DIPROPYLENE GLYCOL METHYL ETHER ACETATE (DPMA) (DIPROPYLENE GLYCOL METHYL ETHER ACETATE (DPMA))

ID: 88917-22-0

%: 8.0000 - 17.0000 GS: LT-UNK RC: None NANO: No ROLE: Solvent

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

2-BUTENEDIOIC ACID (E)-, DIETHYL ESTER (2-BUTENEDIOIC ACID (E)-, DIETHYL ESTER)

ID: 623-91-6

%: 2.5000 - 6.0000 GS: LT-UNK RC: None NANO: No ROLE: Defoamer

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

COCONUT OIL (COCONUT OIL)

ID: 8001-31-8

%: 1.0000 - 3.0000 GS: NoGS RC: None NANO: No ROLE: Workability Adjuster

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

1,6-HEXAMETHYLENE DIISOCYANATE (1,6-HEXAMETHYLENE DIISOCYANATE)

ID: 822-06-0

%: 0.2000 - 0.4000 GS: LT-UNK RC: None NANO: No ROLE: Activator

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
RESPIRATORY	AOEC - Asthmagens	Asthmagen (G) - generally accepted
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)	H331 - Toxic if inhaled
RESPIRATORY	EU - GHS (H-Statements)	H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

RESPIRATORY	MAK	Sensitizing Substance Sah - Danger of airway & skin sensitization

SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

DECANEDIOIC ACID, BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) ESTER; (DECANEDIOIC ACID, BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) ESTER;)

ID: 41556-26-7

%: **0.1000 - 0.5000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **UV Stabilizer**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
PBT	EC - CEPA DSL	Persistent, Bioaccumulative and inherently Toxic (PBiTE) to the Environment (based on aquatic organisms)
MULTIPLE	German FEA - Substances Hazardous to Waters	Class 2 - Hazard to Waters

SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

POLY (OXY-1,2 ETHANEDIYL), ALPHA.-3[3-[3-(2H-BENZOTRIAZOL-2- YL)-5- (1, 1-D IMETHYLETHYL)-4-HYDROXYPHENYL]-1-OXOPROPYL], OMEGA.-[3-[3-(2 H-BENZOTRIAZOL-2-YL)-5-(1, 1-DIMETHYLETHYL)-4-HYDROYPHENOL]-1-OXOPROPOXY)-

ID: Not Registered

%: **0.1000 - 0.5000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **UV Stabilizer**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

POLY (OXY-1 ,2-ETHANEDIYL), .ALPHA.-[3-[3(2H-BENZOTRIAZOL-2- YL)-5- (1,1-D IMETHYL)-4-HYDROXYPHENYL]-1-OXYPROPYL]. OMEGA. - HYDROXY-

ID: Not Registered

%: **0.1000 - 0.5000** GS: **NoGS** RC: **None** NANO: **No** ROLE: **UV Stabilizer**

HAZARDS:	AGENCY(IES) WITH WARNINGS:
None Found	No warnings found on HPD Priority lists

SUBSTANCE NOTES: The amount of this component may vary based on the plant of manufacture.

METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE (METHYL 1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL SEBACATE)

ID: 82919-37-7

%: **0.0500 - 0.1000** GS: **LT-P1** RC: **None** NANO: **No** ROLE: **UV Stabilizer**

HAZARDS:	AGENCY(IES) WITH WARNINGS:	
MULTIPLE	German FEA - Substances Hazardous to	Class 2 - Hazard to Waters

	Waters

SUBSTANCE NOTES: **The amount of this component may vary based on the plant of manufacture.**

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	N/A

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: Applies to All Facilities.
CERTIFICATE URL:

ISSUE DATE: 2018-08-06
EXPIRY DATE:
CERTIFIER OR LAB: LATICRETE

CERTIFICATION AND COMPLIANCE NOTES:

VOC CONTENT	TDS 251 "Low VOC LATICRETE Products / LEED Certification"

CERTIFYING PARTY: Self-declared
APPLICABLE FACILITIES: Applies to All Facilities
CERTIFICATE URL:
https://cdn.laticrete.com/~/media/support-and-downloads/technical-datasheets/tds251.ashx?la=en&vs=1&d=20171127T140453Z

ISSUE DATE: 2017-11-27
EXPIRY DATE: 2099-12-31
CERTIFIER OR LAB: LATICRETE

CERTIFICATION AND COMPLIANCE NOTES: Meets LEED v4 "Low Emitting Materials" VOC content requirements. VOC emission testing (CDPH v1.1) shows results are between 0.5 and 5.0 mg/m3.

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.

No accessories are required for this product.

Section 5: General Notes

SPARTACOTE® FLEX PURE™ meets the Living Building Challenge requirement that the product does not contain any of the Red Listed Materials or Chemicals. Specifically, SPARTACOTE FLEX PURE does not contain the following: •Alkylphenols* •Asbestos •Bisphenol A (BPA)* •Cadmium •Chlorinated Polyethylene & Chlorosulfonated Polyethylene •Chlorobenzenes* •Chlorofluorocarbons (CFCs) & Hydrochlorofluorocarbons (HCFCs)* •Chloroprene (Neoprene) •Chromium VI* •Chlorinated Polyvinyl Chloride (CPVC)* •Formaldehyde (all types - added) •Halogenated Flame Retardants (HFRs) •Lead (added) •Mercury •Polychlorinated Biphenyls (PCBs)* •Perfluorinated Compounds (PFCs)* •Phthalates •Polyvinyl Chloride (PVC) •Polyvinylidene Chloride (PVDC)* •Short Chain Chlorinated Paraffins* •Wood treatments containing Creosote, Arsenic or Pentachlorophenol. SPARTACOTE FLEX PURE also does not contain the following California-defined Group II toxic exempt solvents: •Methylene Chloride (Dichloromethane) •1,1,1-trichloroethane (methyl chloroform) •Trichlorofluoromethane (CFC-11) •Dichlorofluoromethane (CFC-12) •1,1,2-trichloro-1,2,2-trifluoroethane (CFC-113) •1,2-dichloro-1,1,2,2-tetrafluoroethane (CFC-114) •Chloropentafluoroethane (CFC-115) •Cyclic, Branched or Linear, Completely Methylated Siloxanes •(VMS) •Tetrachloroethylene (perchloroethylene) •Ethylfluoride (HFC-161) •1,1,1,3,3,3-hexafluoropropane (HFC-236fa) •1,1,2,3,3-pentafluoropropane (HFC-245ca) •1,1,2,3,3-pentafluoropropane (HFC-

245ea) •1,1,1,2,3-pentafluoropropane (HFC-245eb) •1,1,1,3,3-pentafluoropropane (HFC-245fa) •1,1,1,2,3,3-hexafluoropropane (HFC-236ea) •1,1,1,3,3-pentafluorobutane (HFC-365mfc) •chlorofluoromethane (HCFC-31) •1,2-dichloro-1,1,2-trifluoroethane (HCFC-123a) •1 chloro-1-fluoroethane)HCFC-151a)

Section 6: References

MANUFACTURER INFORMATION

MANUFACTURER: **LATICRETE International**
ADDRESS: **1 Laticrete Park North**
Bethany CT 06524, USA
WEBSITE: **www.laticrete.com**

CONTACT NAME: **Mitch Hawkins**
TITLE: **Technical Services Manager**
PHONE: **203-393-4619**
EMAIL: **wmhawkins@laticrete.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
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 hazards
NEU Neurotoxicity
OZO Ozone depletion
PBT Persistent Bioaccumulative Toxic
PHY Physical Hazard (reactive)
REP Reproductive toxicity
RES Respiratory sensitization
SKI Skin sensitization/irritation/corrosivity
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 (insuficient data to benchmark)
LT-P1 List Translator Possible Benchmark 1
LT-1 List Translator Likely Benchmark 1
LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark)
NoGS Unknown (no data on List Translator Lists)

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.