# **Poly-Crete SLC Urethane Flooring System by Dur-A-Flex**

## Health Product Declaration v2.1

created via: toxnot.com

CLASSIFICATION: 09 67 23

PRODUCT DESCRIPTION: POLY-CRETE SLC (SELF LEVELING CHIP) IS A 100% SOLIDS AROMATIC CEMENTITIOUS URETHANE SYSTEM WITH DECORATIVE CHIP BROADCAST. THE SYSTEM IS TYPICALLY INSTALLED AT A NOMINAL THICKNESS OF 3/16 INCH. POLY-CRETE SLC USES COLORED CHIPS AND IS TOP COATED WITH DUR-A-FLEX EPOXY, URETHANE OR METHYL METHACRYLATE DEPENDING ON PERFORMANCE REQUIREMENTS.



# **Section 1: Summary**

#### CONTENT INVENTORY

Inventory Reporting Format  O Nested Materials Method	Threshold Level  ○ 100 ppm	Residuals/Impurities Residuals and impurities	Are All Substances Aboundicated:	ve the Threshold
Basic Method	⊙ 1,000 ppm ○ Per GHS SDS	considered in all materials	Characterized Percent Weight and Ro	● Yes ONo le Provided?
Threshold Disclosed Per	O Per OSHA MSDS	Explanation(s) provided		
O Material	O Other	for Residuals/Impurities?	Screened	<ul><li>Yes ONo</li></ul>
		⊙ Yes ○ No	Using Priority Hazard Li	sts with Results
			Disclosed?	
			Identified	⊙ Yes ONo
			Name and Identifier Pro	ovided?

#### **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 GREENSCREEN SCORE HAZARD TYPE;

QUARTZ LT - 1 CAN; CEMENT DUST LT - UNK CAN; PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER LT -P1 MUL; BARIUM SULFATE LT - UNK ; CALCIUM CARBONATE LT -UNK ;CASTOR OIL LT - UNK ;POLYMETHYLENE POLYPHENYL ISOCYANATE LT - UNK CAN | RES | MUL;4,4'-METHYLENEDIPHENYL DIISOCYANATE LT - UNK CAN | EYE | SKI | RES | MAM | MUL; BENZENE, 1,1'-METHYLENEBIS[ISOCYANATO- LT - UNK CAN | RES | SKI | EYE | MAM | MUL; DIHYDROGEN OXIDE BM - 4; FIBERGLASS LT -UNK ;BRANCHED C10-ALKYL BENZOATES NOGS ;TITANIUM DIOXIDE LT - 1 CAN; BENZENEMETHANOL LT - UNK DEV | MAM; OXIRANE, 2,2'-[(2,2-DIMETHYL-1,3-PROPANEDIYL) BIS(OXYMETHYLENE)]BIS- LT - UNK SKI; CALCIUM CARBONATE LT - UNK ; CALCIUM HYDROXIDE (CA(OH)2) LT -UNK; GYPSUM LT - UNK; CALCIUM OXIDE LT -UNK ; NONYLPHENOL LT - 1 END | AQU | SKI | REP | DEV | PBT | MAM | MUL; DIETHYLENE GLYCOL LT - UNK DEV | MAM; PHENOL, 4,4'-(1-METHYLETHYLIDENE) BIS-, POLYMER WITH (CHLOROMETHYL)OXIRANE LT - P1 MUL | EYE | SKI | AQU; POLY[OXY(METHYL-1,2-ETHANEDIYL)], A-HYDRO-Ω-HYDROXY- LT - UNK ; MAGNESIUM OXIDE (MGO) LT -UNK; PROPANOIC ACID, 2-METHYL-, 2,2-DIMETHYL-1-(1Number of GreenScreen® BM-4/BM-3 contents: 1

Contents highest concern GreenScreen® Benchmark or List Translator Score: LT - 1

Nanomaterial: No contents are characterized as a nanomaterial

#### INVENTORY AND SCREENING NOTES

This HPD was created with Basic Inventory.

METHYLETHYL)-1,3-PROPANEDIYL ESTER LT -

P1 END;ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH A-HYDRO-Ω-HYDROXYPOLY( OXY-1,2-ETHANEDIYL) LT - UNK ;BENZOIC ACID, 2-HYDROXY- LT - UNK ;

**VOLATILE ORGANIC COMPOUND (VOC) CONTENT** 

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

listings

Material (g/l): 0 Regulatory (g/l): 0

Does the product contain exempt VOCs? No Are ultra-low VOC tints available? Not Applicable

**CONSISTENCY WITH OTHER PROGRAMS** 

LEED v4 Material Ingredients Option 1.

Third Party Verified?

O Yes

VERIFIER:

SCREENING DATE: 8/16/2017

Published Date: 8/16/2017

● No

VERIFICATION #:

EXPIRY DATE: 8/16/2020



## **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

## **DUR-A-FLEX - POLY-CRETE SLC**

PRODUCT THRESHOLD: 1,000ppm RESIDUAL/IMPURITIES NOTES: OTHER PRODUCT NOTES: RESIDUALS AND IMPURITIES CONSIDERED: Considered

QUARTZ ID: 14808-60-7

%: 15-25% GS: LT - 1 RC: Unknown NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:

CAN MAK Carcinogen Carc. 1
CAN IARC 1

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

CEMENT DUST ID: 65997-15-1

%: 15-20% GS: LT - UNK RC: None NANO: No ROLE: Aggregate

HAZARDS: AGENCY(IES) WITH WARNINGS:

CAN MAK Carcinogen Carc. 3B

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER ID: 28064-14-4

%: 5-10% GS: LT - P1 RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:

MUL German FEA - Substances Hazardous to Waters 2

BARIUM SULFATE ID: 7727-43-7

%: 5-10% GS: LT - UNK RC: None NANO: No ROLE: Aggregate

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

CALCIUM CARBONATE ID: 471-34-1

%: 5-10% GS: LT - UNK RC: None NANO: No ROLE: Aggregate

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

CASTOR OIL ID: 8001-79-4

%: 5-10% GS: LT - UNK RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

## POLYMETHYLENE POLYPHENYL ISOCYANATE

%: 1-5% GS: LT - UNK RC: None NANO: No ROLE: Hardener

HAZARDS: AGENCY(IES) WITH WARNINGS:

CAN MAK Carcinogen Carc. 4
RES AOEC - Asthmagens Rs
RES AOEC - Asthmagens G
RES MAK Sensitizing Sah

MUL US EPA PPT Chemical Action Plans EPA Chemical of Concern - Action Plan

published

ID: 9016-87-9

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

## 4,4'-METHYLENEDIPHENYL DIISOCYANATE ID: 101-68-8

%: 1-5%	GS: LT - UNK	RC: None	NANO: No	ROLE: Hardener
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CAN	EU - Annex VI CMRs		Carc. 2	
CAN	MAK Carcinogen		Carc. 4	
EYE	EU - GHS (H-Statements)		H319	
SKI	EU - GHS (H-Statements)		H315	
RES	EU - GHS (H-Statements)		H334	
CAN	EU - GHS (H-Statements)		H351	
SKI	EU - GHS (H-Statements)		H317	
CAN	EU - R-Phrases		40	
SKI	EU - R-Phrases		38	
MAM	EU - R-Phrases		20	
EYE	EU - R-Phrases		36	
RES	EU - R-Phrases		42	
SKI	EU - R-Phrases		43	
CAN	EU - REACH Annex XVII C	MRs	Carc. Cat. 3	
RES	AOEC - Asthmagens		G	
RES	MAK Sensitizing		Sah	
MUL	US EPA PPT Chemical Act	ion Plans	EPA Chemical of Conce	ern - Action Plan

BENZENE, 1,1'-METHYLENEBIS[ISOCYANATO- ID: 26447-40-5

RC: None

HAZARDS: AGENCY(IES) WITH WARNINGS:

GS: LT - UNK

%: 1-5%

CAN EU - Annex VI CMRs Carc. 2 RES EU - GHS (H-Statements) H334 SKI EU - GHS (H-Statements) H317 CAN H351 EU - GHS (H-Statements) SKI EU - GHS (H-Statements) H315 EYE EU - GHS (H-Statements) H319 MAM EU - R-Phrases 20 CAN EU - R-Phrases 40 EYE EU - R-Phrases 36 **RES** 42 EU - R-Phrases SKI EU - R-Phrases 43 SKI EU - R-Phrases 38

CAN EU - REACH Annex XVII CMRs Carc. Cat. 3

MUL US EPA PPT Chemical Action Plans EPA Chemical of Concern - Action Plan

published

NANO: No

**ROLE: Hardener** 

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

DIHYDROGEN OXIDE ID: 7732-18-5

%: 1-5% GS: BM - 4 RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

FIBERGLASS ID: 65997-17-3

%: 1-5% GS: LT - UNK RC: None NANO: No ROLE: Aggregate

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

BRANCHED C10-ALKYL BENZOATES ID: 131298-44-7

%: 1-5% GS: NOGS RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

TITANIUM DIOXIDE ID: 13463-67-7

%: 1-5% GS: LT - 1 RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:

CAN US CDC - Occupational Carcinogens Occupational Carcinogen

CAN MAK Carcinogen Carc. 3A
CAN IARC 2B

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

BENZENEMETHANOL ID: 100-51-6

%: 1-5% GS: LT - UNK RC: None NANO: No ROLE: Hardener

HAZARDS: AGENCY(IES) WITH WARNINGS:

DEV G&L - Neurotoxic Chemicals Neurotoxicity

MAM EU - R-Phrases 20/22

OXIRANE, 2,2'-[(2,2-DIMETHYL-1,3-PROPANEDIYL) BIS(OXYMETHYLENE)]BIS-ID: 17557-23-2

%: 1-5% GS: LT - UNK RC: None NANO: No ROLE: Resin

**HAZARDS**: AGENCY(IES) WITH WARNINGS:

SKI EU - GHS (H-Statements) H317 SKI EU - GHS (H-Statements) H315 SKI EU - R-Phrases 43 SKI 38 EU - R-Phrases

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

**CALCIUM CARBONATE** ID: 1317-65-3

%: 1-5% GS: LT - UNK RC: Unknown NANO: No ROLE: Resin

**HAZARDS:** AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

**CALCIUM HYDROXIDE (CA(OH)2)** 

%: 0.1-1%

ID: 1305-62-0 RC: None

NANO: No

ROLE: Aggregate

**HAZARDS**: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

GS: LT - UNK

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

**GYPSUM** ID: 13397-24-5

%: 0.1-1% GS: LT - UNK RC: None NANO: No **ROLE: Aggregate** 

**HAZARDS:** AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

**CALCIUM OXIDE** ID: 1305-78-8

%: 0.1-1% GS: LT - UNK RC: None NANO: No **ROLE: Aggregate** 

**HAZARDS**: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

**NONYLPHENOL** ID: 25154-52-3

%: 0.1-1% GS: LT - 1 RC: None NANO: No ROLE: Resin

**HAZARDS:** AGENCY(IES) WITH WARNINGS:

**END EU - Priority Endocrine Disrupters** Ш

**END TEDX - Potential Endocrine Disruptor** Potential Endocrine Disruptor

AQU EU - GHS (H-Statements) H400 AQU H410 EU - GHS (H-Statements) SKI EU - GHS (H-Statements) H314 **REP** H361f EU - GHS (H-Statements) DEV EU - GHS (H-Statements) H361d PBT/POP **PBT** EU - ESIS PBT AQU EU - R-Phrases 50/53 DEV EU - R-Phrases 63 SKI EU - R-Phrases 34 22 MAM EU - R-Phrases **REP** EU - R-Phrases 62

**REP** EU - REACH Annex XVII CMRs Repr. Cat. 3

**END** ChemSec - SIN List Nonylphenol is an endocrine disruptor (cat 1)

> and is classified as possibly toxic for reproduction (R3), It is also persistent and

bio-accumulative and it has been found in

**ROLE: Hardener** 

ID: 25322-69-4

ROLE: Aggregate

humans and the environment.

MUL US EPA PPT Chemical Action Plans EPA Chemical of Concern - Action Plan

published

51/53a

NANO: No

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

DIETHYLENE GLYCOL ID: 111-46-6

%: 0.1-1% GS: LT - UNK RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:

DEV G&L - Neurotoxic Chemicals Neurotoxicity

MAM EU - R-Phrases 22

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

PHENOL, 4,4'-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH (CHLOROMETHYL)OXIRANE ID: 25068-38-6

%: 0.1-1% GS: LT - P1 RC: None NANO: No

**HAZARDS**: AGENCY(IES) WITH WARNINGS: German FEA - Substances Hazardous to Waters MUL 2 EYE EU - GHS (H-Statements) H319 SKI EU - GHS (H-Statements) H315 AQU EU - GHS (H-Statements) H411 SKI H317 EU - GHS (H-Statements)

 SKI
 EU - R-Phrases
 43

 EYE
 EU - R-Phrases
 36

 AQU
 EU - R-Phrases
 51/53

SKI EU - R-Phrases 38

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

POLY[OXY(METHYL-1,2-ETHANEDIYL)], A-HYDRO-Ω-HYDROXY-

EU - R-Phrases

%: 0.1-1% GS: LT - UNK RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

MAGNESIUM OXIDE (MGO) ID: 1309-48-4

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

GS: LT - UNK

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

RC: None

PROPANOIC ACID, 2-METHYL-, 2,2-DIMETHYL-1-(1-METHYLETHYL)-1,3-PROPANEDIYL ID: 6846-50-0

**ESTER** 

%: 0.1-1%

AQU

%: 0.1-1% GS: LT - P1 RC: None NANO: No ROLE: Resin

HAZARDS: AGENCY(IES) WITH WARNINGS:

END TEDX - Potential Endocrine Disruptor Potential Endocrine Disruptor

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.

ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH A-HYDRO- $\Omega$ - ID: 57636-09-6 HYDROXYPOLY( OXY-1,2-ETHANEDIYL)

%: 0.1-1% GS: LT - UNK RC: None NANO: No ROLE: Hardener

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

## **BENZOIC ACID, 2-HYDROXY-**

%: 0.1-1% GS: LT - UNK RC: None NANO: No ROLE: Hardener

ID: 69-72-7

HAZARDS: AGENCY(IES) WITH WARNINGS:

None Found No warnings found on HPD Priority Lists

SUBSTANCE NOTES: A substance range is given to protect the intellectual property of both Dur-A-Flex and its suppliers.



# **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.



# **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.



# **Section 5: General Notes**

Residuals and impurities were considered for all raw materials and those that show up above the stated threshold were listed.



### MANUFACTURER INFORMATION

MANUFACTURER: Dur-A-Flex

ADDRESS:

95 Goodwin Street, East Hartford, CT 06108

CONTACT NAME: Ron Phillips TITLE: Product Manager PHONE: 800-253-3539

EMAIL: contact\_us@dur-a-flex.com

WEBSITE: www.dur-a-flex.com

### **KEY**

OSHA MSDS Occupational Safety and Health Administration Material Safety Data Sheet

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/	REP	Reproductive toxicity
			systematic/organ 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
	Benchmark-2 (use but search for safer substitutes)	LT-UNK	List Translator Benchmark Unknown (insufficient information
BM-2	Benchmark-1 (avoid – chemical of high concern)		from List Translator lists to benchmark)
BM-1	Benchmark Unspecified (insufficient data to benchmark)	NoGS	Unknown (no data on List Translator Lists)

Recycled Types

BM-U

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 nanoscale 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 note:

- 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.