

# Poly-Crete MDC Urethane Flooring System by Dur-A-Flex

## Health Product Declaration v2.1

created via: toxnot.com

CLASSIFICATION: 09 67 23

PRODUCT DESCRIPTION: POLY-CRETE MDC IS A DECORATIVE, 100% SOLIDS, AROMATIC, CEMENTITIOUS URETHANE CONCRETE COATING SYSTEM WITH A DECORATIVE CHIP BROADCAST.



## 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

Residuals and impurities considered in all materials

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** GREENSCREEN SCORE HAZARD TYPE;

**QUARTZ** LT - 1 CAN; **CEMENT DUST** LT - UNK CAN; **CASTOR OIL** LT - UNK; **PHENOL, POLYMER WITH FORMALDEHYDE, GLYCIDYL ETHER** LT - P1 MUL; **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; **BARIUM SULFATE** LT - UNK; **CALCIUM CARBONATE** LT - UNK; **BRANCHED C10-ALKYL BENZOATES** NOGS; **CALCIUM CARBONATE** LT - UNK; **CALCIUM HYDROXIDE (CA(OH)2)** LT - UNK; **TITANIUM DIOXIDE** LT - 1 CAN; **BENZENEMETHANOL** LT - UNK DEV | MAM; **GYPSUM** LT - UNK; **OXIRANE, 2,2'-[(2,2-DIMETHYL-1,3-PROPANEDIYL) BIS(OXYMETHYLENE)]BIS-** LT - UNK SKI; **CALCIUM OXIDE** LT - UNK; **DIETHYLENE GLYCOL** LT - UNK DEV | MAM; **NONYLPHENOL** LT - 1 END | AQU | SKI | REP | DEV | PBT | MAM | MUL; **MAGNESIUM OXIDE (MGO)** LT - UNK; **POLY[OXY(METHYL-1,2-ETHANEDIYL)], A-HYDRO-Ω-HYDROXY-** LT - UNK; **PROPANOIC ACID, 2-METHYL-, 2,2-DIMETHYL-1-(1-METHYLETHYL)-1,3-PROPANEDIYL ESTER** LT - P1 END; **ISOCYANIC ACID, POLYMETHYLENEPOLYPHENYLENE ESTER, POLYMER WITH A-HYDRO-Ω-HYDROXYPOLY(OXY-1,2-ETHANEDIYL)** LT - UNK; **PHENOL, 4,4'-(1-**

Number 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.

**METHYLETHYLIDENE)BIS-, POLYMER WITH  
(CHLOROMETHYL)OXIRANE** LT - P1 MUL | EYE | SKI | AQU;

**VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

Material (g/l): 0  
Regulatory (g/l): 0  
Does the product contain exempt VOCs? No  
Are ultra-low VOC tints available? Not Applicable

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

**CONSISTENCY WITH OTHER PROGRAMS**  
LEED v4 Material Ingredients Option 1.

Third Party Verified?	PREPARER:	SCREENING DATE: 8/16/2017
<input type="radio"/> Yes	VERIFIER:	PUBLISHED DATE: 8/16/2017
<input checked="" type="radio"/> 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](http://www.hpd-collaborative.org/hpd-2-1-standard)

### DUR-A-FLEX - POLY-CRETE MDC

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

#### QUARTZ

ID: 14808-60-7

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CAN	MAK Carcinogen		NANO: No	ROLE: Resin
CAN	IARC		Carc. 1	
			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

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
CAN	MAK Carcinogen		NANO: No	ROLE: Aggregate
			Carc. 3B	

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

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priority Lists		NANO: No	ROLE: Resin

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

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
%: 1-5%	GS: LT - P1	RC: None	NANO: No	ROLE: Resin
MUL	German FEA - Substances Hazardous to Waters		2	

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

**POLYMETHYLENE POLYPHENYL ISOCYANATE**

ID: 9016-87-9

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
%: 1-5%	GS: LT - UNK	RC: None	NANO: No	ROLE: Hardener
MUL	US EPA PPT Chemical Action Plans		EPA Chemical of Concern - Action Plan published	
CAN	MAK Carcinogen		Carc. 4	
RES	AOEC - Asthmagens		Rs	
RES	AOEC - Asthmagens		G	
RES	MAK Sensitizing		Sah	

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

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
%: 1-5%	GS: LT - UNK	RC: None	NANO: No	ROLE: Hardener
MUL	US EPA PPT Chemical Action Plans		EPA Chemical of Concern - Action Plan published	
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 CMRs		Carc. Cat. 3	
RES	AOEC - Asthmagens		G	
RES	MAK Sensitizing		Sah	

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

**BENZENE, 1,1'-METHYLENEBIS[ISOCYANATO-**

ID: 26447-40-5

HAZARDS:	AGENCY(IES) WITH WARNINGS:			
%: 1-5%	GS: LT - UNK	RC: None	NANO: No	ROLE: Hardener
CAN	EU - Annex VI CMRs		Carc. 2	
RES	EU - GHS (H-Statements)		H334	
SKI	EU - GHS (H-Statements)		H317	
CAN	EU - GHS (H-Statements)		H351	
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	EU - R-Phrases	42
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

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.

### BARIUM SULFATE

ID: 7727-43-7

%: 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.

### CALCIUM CARBONATE

ID: 471-34-1

%: 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.

### 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)

ID: 1305-62-0

%: 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.

### TITANIUM DIOXIDE

ID: 13463-67-7

%: 0.1-1%	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

%: 0.1-1%	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	

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.

**OXIRANE, 2,2'-[(2,2-DIMETHYL-1,3-PROPANEDIYL) BIS(OXYMETHYLENE)]BIS-**

ID: 17557-23-2

%: 0.1-1%	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	EU - R-Phrases		38	

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.

**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.

**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		II	
END	TEDX - Potential Endocrine Disruptor		Potential Endocrine Disruptor	
AQU	EU - GHS (H-Statements)		H400	
AQU	EU - GHS (H-Statements)		H410	
SKI	EU - GHS (H-Statements)		H314	
REP	EU - GHS (H-Statements)		H361f	
DEV	EU - GHS (H-Statements)		H361d	
PBT	EU - ESIS PBT		PBT/POP	
AQU	EU - R-Phrases		50/53	
DEV	EU - R-Phrases		63	
SKI	EU - R-Phrases		34	
MAM	EU - R-Phrases		22	
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 humans and the environment.
MUL	US EPA PPT Chemical Action Plans	EPA Chemical of Concern - Action Plan published
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

%: 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.				

**POLY[OXY(METHYL-1,2-ETHANEDIYL)], A-HYDRO-Ω-HYDROXY-** ID: 25322-69-4

%: 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.				

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

%: 0.1-1%	GS: LT - P1	RC: None	NANO: No	ROLE: Resin
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
END	TEXD - 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-Ω-HYDROXPOLY( OXY-1,2-ETHANEDIYL)** ID: 57636-09-6

%: 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			
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	ROLE: Hardener
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
MUL	German FEA - Substances Hazardous to Waters	2		
EYE	EU - GHS (H-Statements)	H319		
SKI	EU - GHS (H-Statements)	H315		
AQU	EU - GHS (H-Statements)	H411		
SKI	EU - GHS (H-Statements)	H317		
AQU	EU - R-Phrases	51/53a		
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.				



### 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.



## Section 6: References

### MANUFACTURER INFORMATION

MANUFACTURER: Dur-A-Flex

ADDRESS:

95 Goodwin Street, East Hartford, CT 06108

WEBSITE: www.dur-a-flex.com

CONTACT NAME: Ron Phillips

TITLE: Product Manager

PHONE: 800-253-3539

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

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

#### GreenScreen (GS)

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

#### Recycled Types

<b>PreC</b>	Preconsumer (Post-Industrial)
<b>PostC</b>	Postconsumer
<b>Both</b>	Both Preconsumer and Postconsumer
<b>Unk</b>	Inclusion of recycled content is unknown
<b>None</b>	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.*