created via: HPDC Online Builder

**HPD UNIQUE IDENTIFIER: 23436** 

CLASSIFICATION: 03 54 16 Hydraulic Cement Underlayment

PRODUCT DESCRIPTION: ARDEX K 523™ is a pourable, polishable, self-leveling topping for fast-track resurfacing of indoor concrete. ARDEX K 523 can be installed from a minimum thickness of 3/8" (9 mm) up to a maximum thickness of 2" (5 cm). With black and white aggregates, ARDEX K 523 provides a polished, "aggregate-exposed" surface. Polishing can proceed in as little as 24 hours.

# Section 1: Summary

# **Basic Method / Product Threshold**

#### **CONTENT INVENTORY**

**Inventory Reporting Format** 

C Nested Materials Method

Basic Method

**Threshold Disclosed Per** 

Material

Product

Threshold level

C 100 ppm

€ 1,000 ppm

C Per GHS SDS

○ Other

Residuals/Impurities

Considered

C Partially Considered

O Not Considered

Explanation(s) provided for Residuals/Impurities?

Yes ○ No

All Substances Above the Threshold Indicated Are:

Characterized

○ Yes Ex/SC ⊙ Yes ○ No

% weight and role provided for all substances.

Screened

○ Yes Ex/SC ⊙ Yes ○ No

All substances screened using Priority Hazard Lists with

results disclosed.

Identified

○ Yes Ex/SC ⊙ Yes ○ No

All substances disclosed by Name (Specific or Generic) and Identifier.

#### **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

ARDEX K 523 [ QUARTZ LT-1 | CAN HIGH-ALUMINA CEMENT LT-UNK LIMESTONE; CALCIUM CARBONATE LT-UNK CALCIUM SULFATE, 1\_2-HYDRATE, POWDER LT-UNK ETHYLENE VINYL ACETATE POLYMER (EVA) LT-UNK PORTLAND CEMENT LT-P1 | END | CAN ]

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

Contents highest concern GreenScreen Benchmark or List translator Score ... LT-1

Nanomaterial ... No

## **INVENTORY AND SCREENING NOTES:**

The exact percentages of the ingredients are withheld by the manufacturer for proprietary purposes.

# **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: UL/GreenGuard Gold Certified

#### **CONSISTENCY WITH OTHER PROGRAMS**

Pre-checked for LEED v4 Material Ingredients Option 1

Third Party Verified?

O Yes No

PREPARER: Self-Prepared

**VERIFIER:** 

**VERIFICATION #:** 

**SCREENING DATE: 2020-03-13 PUBLISHED DATE: 2021-01-18** EXPIRY DATE: 2023-03-13

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

### **ARDEX K 523**

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: ARDEX uses quarry-extracted ingredients, such as quartz, cement, limestone, and gypsum. As a result, suppliers of these ingredients indicate that raw materials may contain residual earthen material, such as sand, in extremely small quantities. These materials are listed on suppliers' Safety Data Sheets (SDS) and they are accounted for on the Safety Data Sheets of ARDEX products.

OTHER PRODUCT NOTES:

QUARTZ					II	D: 14808-60-7
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2020-03-13				
%: 30.0000 - 60.0000	GS: LT-1	RC: No	one	NANO: No	SUBSTANCE ROLI	E: Filler
HAZARD TYPE	AGENCY AND LIST TITLES	,	WARNII	NGS		
CAN	IARC	ı	Group 1	I - Agent is Card	cinogenic to humans	
CAN	US CDC - Occupational Carcinogens	Occupational Carcinogen				
CAN	CA EPA - Prop 65	Carcinogen - specific to chemical form or expos route			posure	
CAN	IARC	Group 1 - Agent is carcinogenic to humans - inhale from occupational sources			inhaled	
CAN	US NIH - Report on Carcinogens			to be Human Ca tional setting)	arcinogen (respirable	size -
CAN	MAK		Carcino man	ogen Group 1 - S	Substances that cause	e cancer in
CAN	GHS - New Zealand		6.7A - K	Known or presur	ned human carcinoge	ens
CAN	GHS - Japan	-	Carcino	genicity - Cate	gory 1A [H350]	
CAN	GHS - Australia		H350i -	May cause can	cer by inhalation	

SUBSTANCE NOTES: The exact percentages of the blended cements, additives, and aggregates are withheld by the manufacturer as trade secrets.

HIGH-ALUMINA CEMENT				ID: 65997-16-2
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCF	REENING DATE:	2020-03-13
%: 10.0000 - 30.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Binder
HAZARD TYPE	AGENCY AND LIST TITLES	WARNI	NGS	
None found			No warnings fo	ound on HPD Priority Hazard Lists

SUBSTANCE NOTES: The exact percentages of the blended cements, additives, and aggregates are withheld by the manufacturer as trade secrets.

### LIMESTONE; CALCIUM CARBONATE

None found

ID: 1317-65-3

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library		HAZARD SCREENING DATE: 2020-03-13			
%: 10.0000 - 30.0000	GS: LT-UNK	RC: None	NANO: <b>No</b>	SUBSTANCE ROLE: Filler	
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS			

SUBSTANCE NOTES: The exact percentages of the blended cements, additives, and aggregates are withheld by the manufacturer as trade secrets.

# CALCIUM SULFATE, 1\_2-HYDRATE, POWDER

ID: 7778-18-9

No warnings found on HPD Priority Hazard Lists

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCR	REENING DATE:	2020-03-13
%: 5.0000 - 10.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Binder
HAZARD TYPE	AGENCY AND LIST TITLES	WARNI	NGS	
None found			No warnings fo	ound on HPD Priority Hazard Lists

SUBSTANCE NOTES: 7778-18-9

## **ETHYLENE VINYL ACETATE POLYMER (EVA)**

ID: 24937-78-8

HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SCREENING DATE: 2020-03-13			
%: 1.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: No	SUBSTANCE ROLE: Viscosity modifier	
HAZARD TYPE	AGENCY AND LIST TITLES	WAF	RNINGS		
None found			No warn	ings found on HPD Priority Hazard Lists	
01100741107110770 7770 40					

SUBSTANCE NOTES: 7778-18-9

PORTLAND CEMENT				ID: 65997-15-1
HAZARD SCREENING METHOD:	Pharos Chemical and Materials Library	HAZARD SC	REENING DATE:	2020-03-13
%: 1.0000 - 5.0000	GS: LT-P1	RC: None	NANO: No	SUBSTANCE ROLE: Binder
HAZARD TYPE	AGENCY AND LIST TITLES	WARNINGS		
END	TEDX - Potential Endocrine Disruptors	s Potential Endocrine Disruptor		ruptor

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

SUBSTANCE NOTES: The exact percentages of the ingredients have been withheld by the manufacturer as trade secrets.



# 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**

#### **UL/GreenGuard Gold Certified**

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: All ARDEX manufacturing

facilities.

CERTIFICATE URL: https://spot.ul.com/mainapp/products/detail/5fe8f5e5bb5338e72ba021ec?

page\_type=Products%20Catalog

CERTIFICATION AND COMPLIANCE NOTES:

ISSUE DATE: 2020-10- EXPIRY DATE:

CERTIFIER OR LAB: UL

**Environment** 



# 🖶 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.

WATER

HPD URL: No HPD Available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES:

Mix each bag of ARDEX K 521 with clean, potable water in accordance with the technical data sheet.



# Section 5: General Notes

Refer to the GHS Formatted Safety Data Sheet (SDS) and the Technical Data Sheet for additional information regarding the proper mixing and application of this product. Information can be found at www.ardexamericas.com.

#### MANUFACTURER INFORMATION

MANUFACTURER: ARDEX Engineered Cements

ADDRESS: 400 Ardex Park Drive Aliquippa PA 15001, USA

WEBSITE: www.ardexamericas.com

CONTACT NAME: Steven Newbrough
TITLE: Environmental Programs Specialist

PHONE: **724-203-5445** 

EMAIL: steven.newbrough@ardexamericas.com

The listed contact is responsible for the validity of this HPD and attests that it is accurate and complete to the best of his or her knowledge.

### KEY

**Hazard Types** 

**AQU** Aquatic toxicity

**CAN** Cancer

**DEV** Developmental toxicity

END Endocrine activity

**EYE** Eye irritation/corrosivity

**GEN** Gene mutation

**GLO** Global warming

LAN Land toxicity

MAM Mammalian/systemic/organ toxicity

MUL Multiple

**NEU** Neurotoxicity

NF Not found on Priority Hazard Lists

**OZO** Ozone depletion

PBT Persistent, bioaccumulative, and toxic

PHY Physical hazard (flammable or reactive)

**REP** Reproductive

**RES** Respiratory sensitization

SKI Skin sensitization/irritation/corrosivity

**UNK** Unknown

#### 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 (due to insufficient data)

LT-P1 List Translator Possible 1 (Possible Benchmark-1)

LT-1 List Translator 1 (Likely Benchmark-1)

LT-UNK List Translator Benchmark Unknown (the chemical is present on at least one GreenScreen Specified List, but the

information contained within the list did not result in a clear mapping to a LT-1 or LTP1 score.)

NoGS No GreenScreen.

### **Recycled Types**

PreC Pre-consumer recycled content

PostC Post-consumer recycled content

UNK Inclusion of recycled content is unknown

None Does not include recycled content

### Other Terms:

GHS SDS Globally Harmonized System of Classification and Labeling of Chemicals Safety Data Sheet

### 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.