# RetroPlate by Curecrete Chemical Company, Inc.

# **Health Product** Declaration v2.1

created via: HPDC Online Builder

CLASSIFICATION: 03 35 00.00 Concrete Finishing

PRODUCT DESCRIPTION: RetroPlate is a zero VOC, chemically reactive concrete sealer, hardener and dustpoofer formulated to stabilize and harden concrete surfaces prior to diamond abrasive polishing. This deep penetrating sealer chemically reacts with the concrete forming a crystalline structure within the concrete pores, filling the pore and solidifying the concrete into a solid densified mass. This reaction chemically hardens the concrete surface, rendering it abrasion resistant, dustfree and resistant to the penetration of surface contaminants. The results are permanent. No retreatment is required. RetroPlate does not contribute to alkali silicate reaction (ASR). The chemical identity of the proprietary components have been withheld to preserve the intellectual property rights of Curecrete Distribution, Inc. However, the full CAS numbers have been entered into the HPD database which is verified by the WECRS Green tool. The quantity of each proprietary chemical falls below the required reporting threshold for the HPD Collaborative. The product as a whole is nontoxic and the hazardous properties of the proprietary chemicals are undetectable and not relevant to the product as supplied or used. All chemical hazards are listed and have been disclosed



# Section 1: Summary

# **Nested Method / Product Threshold**

### **CONTENT INVENTORY**

**Inventory Reporting Format** 

Nested Materials Method

Rasic Method

Threshold Disclosed Per

Material

Product

**Threshold level** 

C 100 ppm

1,000 ppm

Per GHS SDS C Per OSHA MSDS

C Other

Residuals/Impurities

Residuals/Impurities

Considered in 1 of 1 Materials

Explanation(s) provided for Residuals/Impurities?

Yes O 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

C Yes O 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

RETROPLATE [ WATER (WATER) BM-4 SODIUM SILICATE (SODIUM SILICATE) LT-P1 | END SODIUM METASILICATE NONAHYDRATE (SODIUM METASILICATE NONAHYDRATE) LT-UNK UNDISCLOSED (REAGENT) Nogs | Mam | SKI UNDISLOCSED (PROPRIETARY CATALYST) Nogs | Mam || MUL ]

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

Contents highest concern GreenScreen

Benchmark or List translator Score ... LT-P1

Nanomaterial ... No

## **INVENTORY AND SCREENING NOTES:**

No known residuals exist from the manufacturing of this product or based on the Chemical Suppliers MSDS sheets

## **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: VOC Emission Test Certificate VOC content: Volatile Content Non Aqueous

**CONSISTENCY WITH OTHER PROGRAMS** 

No pre-checks completed or disclosed.

Third Party Verified?

C Yes No

PREPARER: Self-Prepared

VERIFIER: **VERIFICATION #:**  SCREENING DATE: 2017-09-14 PUBLISHED DATE: 2018-09-06 EXPIRY DATE: 2020-09-14



# 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

**RETROPLATE** %: 100.0000 HPD URL: Http://www.retroplatesystem.com

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES CONSIDERED: Yes

RESIDUALS AND IMPURITIES NOTES: The RetroPlate concrete densifier is a proprietary densifier and sealer. Because of trade secrets, the process and certain chemical names have been withheld.

OTHER MATERIAL NOTES: RetroPlate is a zero VOC, chemically reactive concrete sealer, hardener and dustpoofer formulated to stabilize and harden concrete surfaces prior to diamond abrasive polishing. This deep penetrating sealer chemically reacts with the concrete forming a crystalline structure within the concrete pores, filling the pore and solidifying the concrete into a solid densified mass. This reaction chemically hardens the concrete surface, rendering it abrasion resistant, dust-free and resistant to the penetration of surface contaminants. The results are permanent. No retreatment is required. RetroPlate does not contribute to alkali silicate reaction (ASR). The chemical identity of the proprietary components have been withheld to preserve the intellectual property rights of Curecrete Distribution, Inc. However, the full CAS numbers have been entered into the HPD database which is verified by the WECRS Green tool. The quantity of each proprietary chemical falls below the required reporting threshold for the HPD Collaborative. The product as a whole is nontoxic and the hazardous properties of the proprietary chemicals are undetectable and not relevant to the product as supplied or used. All chemical hazards are listed and have been disclosed

WATER (WATER)				ID: <b>773</b>	2-18-5	
%: 45.0000 - 70.0000	GS: <b>BM-4</b>	RC: None	NANO: <b>No</b>	ROLE: Carrier		
HAZARDS:	AGENCY(IES) WITH WARN	AGENCY(IES) WITH WARNINGS:				
None Found	No warnings found	No warnings found on HPD Priority lists				
SUBSTANCE NOTES: Water: Carrie	er					

SODIUM SILICATE (SODIUM SILICATE)					
%: <b>20.0000 - 40.0000</b>	GS: LT-P1	RC: None	NANO: <b>No</b>	ROLE: Reactive Concrete Modifier	
HAZARDS:	AGENCY(IES) WITH W	AGENCY(IES) WITH WARNINGS:			
ENDOCRINE	TEDX - Potentia	TEDX - Potential Endocrine Disruptors		ential Endocrine Disruptor	

SUBSTANCE NOTES: Reactive Concrete Modifier

SODIUM METASILICATE NONAHYDRATE (SODIUM METASILICATE **NONAHYDRATE**)

ID: 13517-24-3

%: 0.1000 - 0.9000	GS: <b>LT-UNK</b>	RC: None	nano: <b>No</b>	ROLE: Reactive Concrete Modifier
HAZARDS:	AGENCY(IES) WITH WARNINGS:			
None Found	No warnings found on HPD Priorit	No warnings found on HPD Priority lists		
SUBSTANCE NOTES: Reactive	Concrete Modifier			

# UNDISCLOSED (REAGENT) ID: Undisclosed

WARNINGS:				
EU - R-phrases		R25 - Toxic if Swallowed		
EU - GHS (H-Statements)		H315 - Causes skin irritation		
3	3	R25 - Toxic if Swa		

SUBSTANCE NOTES: The chemical identity has been withheld to preserve the intellectual proprietary rights of Curecrete Distribution, Inc However Curecrete Distribution has verified the chemicals with the HPD Database which is verified by the WECRS Green Tool. The quantities of chemical falls below the required reporting threshold for the HPD Collaborative. The product as a whole is non-corrosive and the hazardous properties of this chemical is undetectable and not relevant to the product as supplied or used.

## **UNDISLOCSED (PROPRIETARY CATALYST)**

ID: Undisclosed

%: 0.0000 - 0.0200	GS: <b>NoGS</b>	RC: None	nano: <b>No</b>	ROLE: Proprietary Catalyst		
HAZARDS:	AGENCY(IES) WITH WARNINGS:					
MAMMALIAN	EU - R-phrases		R25 - Toxic	R25 - Toxic if Swallowed		
SKIN IRRITATION	Australia - GHS		H314 - Caus	H314 - Causes severe skin burns and eye damage		
RESTRICTED LIST	German FEA - Substances Hazardous to Waters		Class 2 - Hazard to Waters			

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# 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**

### **VOC Emission Test Certificate**

CERTIFYING PARTY: Third Party

APPLICABLE FACILITIES: ALL

ISSUE DATE: 2017-

EXPIRY DATE:

CERTIFIER OR LAB: Berkely

05-08

Analytical

CERTIFICATE URL: http://retroplatesystem.com/wpcontent/uploads/RetroPlate-LEED-V-4-CDPH-

1.2-2017-Indoor-Emission-Testing-

Certificate.pdf

certification and compliance notes: Standards & Codes Recognizing CDPH Standard Method V1.2 (partial list) • USGBC LEED Version 4, BD&C, ID&C • The WELL Building Standard • ANSI/GBI 01, Green Building Assessment Protocol Narrative: Curecrete Distribution, Inc. selected a sample representative of its RetroPlate product and submitted it on 5/18/2017 for testing. Berkeley Analytical measured and evaluated the emissions of VOCs from this sample following CDPH/EHLB/Standard Method V1.2-2017. The results of the test are presented in Berkeley Analytical report, 948-001-02A-Jun0917. Berkeley Analytical is an independent, third-party laboratory specializing in the analysis of organic chemicals emitted by and contained in building products, finishes, furniture, and consumer products. We are an ISO/

#### **VOC CONTENT**

## **Volatile Content Non Aqueous**

CERTIFYING PARTY: Third Party APPLICABLE FACILITIES: ALL

ISSUE DATE:

EXPIRY DATE:

CERTIFIER OR LAB:

CERTIFICATE URL: https://builder.hpd-

2011-03-18

2021-03-18

Timpview Analytical

Laboratories

collaborative.org/uploads/files/certifications/1242/1439399062.pdf

CERTIFICATION AND COMPLIANCE NOTES: VOC Certification



# 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

RetroPlate is a zero VOC, chemically reactive concrete sealer, hardener and dustpoofer formulated to stabilize and harden concrete surfaces prior to diamond abrasive polishing. This deep penetrating sealer chemically reacts with the concrete forming a crystalline structure within the concrete pores, filling the pore and solidifying the concrete into a solid densified mass. This reaction chemically hardens the concrete surface, rendering it abrasion resistant, dustfree and resistant to the penetration of surface contaminants. The results are permanent. No retreatment is required. RetroPlate does not contribute to alkali silicate reaction (ASR). The chemical identity of the proprietary components have been withheld to preserve the intellectual property rights of Curecrete Distribution, Inc. However,

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etroPlate pdrepository.hpd-collaborative.org HPD v2.1 created via HPDC Builder Page 5 o	f 6

#### MANUFACTURER INFORMATION

MANUFACTURER: Curecrete Chemical Company, Inc.

ADDRESS: 1203 West Spring Creek Place

Springville UT 84663, USA

WEBSITE: http://retroplatesystem.com

CONTACT NAME: Dave Hoyt TITLE: Technical Director

PHONE: 801.812.3420

EMAIL: dave.hoyt@ashfordformula.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

#### **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

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)

#### **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.