

HPD UNIQUE IDENTIFIER: 31122

CLASSIFICATION: 03 35 43 Polished 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**

<p><b>Inventory Reporting Format</b></p> <p><input checked="" type="radio"/> Nested Materials Method</p> <p><input type="radio"/> Basic Method</p> <p><b>Threshold Disclosed Per</b></p> <p><input type="radio"/> Material</p> <p><input checked="" type="radio"/> Product</p>	<p><b>Threshold Level</b></p> <p><input type="radio"/> 100 ppm</p> <p><input checked="" type="radio"/> 1,000 ppm</p> <p><input type="radio"/> Per GHS SDS</p> <p><input type="radio"/> Other</p>	<p><b>Residuals/Impurities Evaluation</b></p> <p>Completed in 1 of 1 Materials</p> <p><b>Explanation(s) provided for Residuals/Impurities?</b></p> <p><input checked="" type="radio"/> Yes <input type="radio"/> No</p>	<p><i>For all contents above the threshold, the manufacturer has:</i></p> <p><b>Characterized</b> <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>Provided weight and role.</i></p> <p><b>Screened</b> <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>Provided screening results using HPDC-approved methods.</i></p> <p><b>Identified</b> <input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p><i>Provided name and CAS RN or other identifier.</i></p>
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**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.

**NESTED MATERIAL | MATERIAL OR SUBSTANCE | RESIDUAL OR IMPURITY**

**GREENSCREEN SCORE | HAZARD TYPE**

**RETROPLATE [ WATER (WATER) BM-4 SODIUM SILICATE (SODIUM SILICATE) LT-P1 ] END | SKI | EYE ]**

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

Contents highest-concern GreenScreen score(s) (BM-1, LT-1, LT-P1) ... 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**

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

Does the product contain exempt VOCs: No

Are colorants available that do not increase the VOC content of the base paint when tinted: N/A

**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**

Pre-checked for LEED v4 Option 1.

Pre-checked for LEED v4.1 Option 1.

Third Party Verified?

Yes

No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2023-01-24

PUBLISHED DATE: 2023-01-24

EXPIRY DATE: 2026-01-24

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 2.3, available on the HPDC website at: [www.hpd-collaborative.org/hpd-2-3-standard](http://www.hpd-collaborative.org/hpd-2-3-standard)

RETROPLATE

#: 100.0000

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Other: Concrete Sealer, Densifying Agent

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 dustpooper 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 re-treatment is required. RetroPlate does not contribute to alkali silicate reaction (ASR).

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**WATER (WATER)**

ID: 7732-18-5

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-01-24 12:29:08**%: **45.0000 - 70.0000** GreenScreen: **BM-4** RC: **None** NANO: **No** SUBSTANCE ROLE: **Carrier**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
EXEMPT	European Union / European Commission (EU EC)	EU - REACH Exemptions  Exempted from REACH Annex IV listing due to intrinsic safety

SUBSTANCE NOTES: Water: Carrier

**SODIUM SILICATE (SODIUM SILICATE)**

ID: 1344-09-8

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-01-24 12:29:09**%: **20.0000 - 40.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Reagent**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
END	TEDX - Potential Endocrine Disruptors	Potential Endocrine Disruptor
SKI	GHS - New Zealand	Skin corrosion category 1C
EYE	GHS - New Zealand	Serious eye damage category 1
SKI	GHS - Australia	H314 - Causes severe skin burns and eye damage [Skin corrosion/irritation - Category 1A or 1B or 1C]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes of Problematic Chemicals  Antimicrobials

SUBSTANCE NOTES: Reactive Concrete Modifier

## 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 CERTIFICATE URL: <a href="http://retroplatesystem.com/wp-content/uploads/RetroPlate-LEED-V-4-CDPH-1.2-2017-Indoor-Emission-Testing-Certificate.pdf">http://retroplatesystem.com/wp-content/uploads/RetroPlate-LEED-V-4-CDPH-1.2-2017-Indoor-Emission-Testing-Certificate.pdf</a>	ISSUE DATE: 2017-05-08 EXPIRY DATE:	CERTIFIER OR LAB: Berkely Analytical
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 CERTIFICATE URL: <a href="https://builder.hpd-collaborative.org/uploads/files/certifications/1242/1439399062.pdf">https://builder.hpd-collaborative.org/uploads/files/certifications/1242/1439399062.pdf</a>	ISSUE DATE: 2011-03-18 EXPIRY DATE:	CERTIFIER OR LAB: Timpview Analytical Laboratories
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).

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**MANUFACTURER INFORMATION**

**MANUFACTURER:** Curecrete Chemical Company, Inc.  
**ADDRESS:** 1203 West Spring Creek Place  
 Springville UT 84663, USA  
**WEBSITE:** <http://retroplatesystem.com>

**CONTACT NAME:** Roy Bowman  
**TITLE:** VP of Technical Services  
**PHONE:** 918.557.2333  
**EMAIL:** [dave.hoyt@ashfordformula.com](mailto:dave.hoyt@ashfordformula.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**

<b>AQU</b> Aquatic toxicity	<b>LAN</b> Land toxicity	<b>PHY</b> Physical hazard (flammable or reactive)
<b>CAN</b> Cancer	<b>MAM</b> Mammalian/systemic/organ toxicity	<b>REP</b> Reproductive
<b>DEV</b> Developmental toxicity	<b>MUL</b> Multiple	<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>NF</b> Not found on Priority Hazard Lists	<b>UNK</b> Unknown
<b>GEN</b> Gene mutation	<b>OZO</b> Ozone depletion	
<b>GLO</b> Global warming	<b>PBT</b> Persistent, bioaccumulative, and toxic	

**GreenScreen (GS)**

<b>BM-4</b> Benchmark 4 (prefer-safer chemical)	<b>LT-P1</b> List Translator Possible 1 (Possible Benchmark-1)
<b>BM-3</b> Benchmark 3 (use but still opportunity for improvement)	<b>LT-1</b> List Translator 1 (Likely Benchmark-1)
<b>BM-2</b> Benchmark 2 (use but search for safer substitutes)	<b>LT-UNK</b> List Translator Benchmark Unknown
<b>BM-1</b> Benchmark 1 (avoid - chemical of high concern)	<b>NoGS</b> No GreenScreen.
<b>BM-U</b> Benchmark Unspecified (due to insufficient data)	

GreenScreen Benchmark scores sometimes also carry subscripts, which provide more context for how the score was determined. These are DG (data gap), TP (transformation product), and CoHC (chemical of high concern). For more information, see 2.2.2.4 GreenScreen® for Safer Chemicals, [www.greenscreenchemicals.org](http://www.greenscreenchemicals.org), and Best Practices for Hazard Screening on the HPDC website ([hpd-collaborative.org](http://hpd-collaborative.org)).

**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.*