

HPD UNIQUE IDENTIFIER: 31345

CLASSIFICATION: 06 26 00 Board Paneling

PRODUCT DESCRIPTION: Armourcoat SCULPTURAL is a range of seamless sculptural wall surface designs which are constructed from a series of pre-cast panels that are bonded to the substrate. The panel joints are then filled and sanded and a final decoration is applied to achieve a seamless sculpted surface. Armourcoat SCULPTURAL designs are created by combining computer-aided design with traditional hand sculpting to create designs that fit together with total accuracy yet retain the essence of being hand crafted. Some of the designs are based on a single panel that creates a repeating pattern. Others are made from a sequence of different panels that can be integrated together in many different ways to create totally unique sculpted walls. The multiple panel designs make it possible to create non-repetitive seamless sculptural walls where the designs flow and change across the surface just as in nature. As a consequence, no two walls need ever be identical

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 7 of 7 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

GYPSUM HEMI-HYDRATE [ PLASTER OF PARIS NoGS CLAY NoGS ]  
 LIGHTWEIGHT GLASS AGGREGATE [ SODA LIME BOROSILICATE GLASS LT-UNK ]  
 ACRYLIC POLYMER [ ACRYLIC POLYMER NoGS ]  
 GLASS FIBRE MATT [ GLASS FIBERS NoGS ]  
 HYDRATED LIME [ CALCIUM HYDROXIDE LT-P1 ]  
 SKI | MAM | EYE ]  
 CITRIC ACID [ CITRIC ACID LT-UNK ]  
 SKI | EYE ]  
 METHYL CELLULOSE [ HYDROXYPROPYL METHYLCELLULOSE LT-UNK ]

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

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

Nanomaterial ... No

INVENTORY AND SCREENING NOTES:

This Health Product declaration (HPD) was completed in accordance with the HPD Standard Version 2.3 and discloses hazards associated with all substances present at or above 1000 parts per million (ppm) in the finished product along with the role and percentage weight therefore. Therefore, this HPD qualifies for the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1). Substances not "Identified" are those considered proprietary to suppliers, and thus are "Undisclosed" on this HPD.

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: Eurofins Indoor Air Comfort - certified product

CONSISTENCY WITH OTHER PROGRAMS

Pre-checked for LEED v4 Option 1.

Third Party Verified?

- Yes
- No

PREPARER: Self-Prepared

VERIFIER:

VERIFICATION #:

SCREENING DATE: 2023-01-17

PUBLISHED DATE: 2023-02-13

EXPIRY DATE: 2026-01-17

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

### GYPSUM HEMI-HYDRATE %: 70.0000 - 85.0000

PRODUCT THRESHOLD: 1000 ppm RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: Gypsum plaster will have small amounts of clay impurities that affect the colour of the gypsum mineral.

OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

### PLASTER OF PARIS

ID: 26499-65-0

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-01-17 11:31:27

%: 70.0000 - 85.0000 GreenScreen: NoGS RC: None NANO: No SUBSTANCE ROLE: Binder

#### HAZARD TYPE

#### LIST NAME AND SOURCE

#### WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

#### ADDITIONAL LISTINGS

#### LIST NAME AND SOURCE

#### NOTIFICATION

None found

No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Primary binder for the panels  
Living Building Challenge (LBC) Red List Approved

### CLAY

ID: 1302-87-0

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-01-17 11:31:27

%: Impurity/Residual GreenScreen: NoGS RC: None NANO: No SUBSTANCE ROLE: Impurity/Residual

#### HAZARD TYPE

#### LIST NAME AND SOURCE

#### WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

#### ADDITIONAL LISTINGS

#### LIST NAME AND SOURCE

#### NOTIFICATION

None found

No listings found on Additional Hazard Lists

SUBSTANCE NOTES: When the gypsum is mined it is in strata within layers of marl clay and it is not possible in the manufacturing process to remove all traces of clay  
Living Building Challenge (LBC) Red List Approved

**LIGHTWEIGHT GLASS  
AGGREGATE**

%: 5.0000 - 15.0000

PRODUCT THRESHOLD: 1000 ppm      RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes      MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: Lightweight foamed glass aggregate is made from recycled plate glass that is combined with a foaming agent and formed into a lightweight spherical aggregate there may be minor mineral impurities in the glass. No Residuals or Impurities are expected to be present at or above Content Inventory Threshold that return a GreenScreen score of BM-1, LT-1, LT-P1 or NoGS.

OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

**SODA LIME BOROSILICATE GLASS**

ID: 65997-17-3

HAZARD DATA SOURCE: Pharos Chemical and Materials Library      HAZARD SCREENING DATE: 2023-02-09 21:17:04

%: 5.0000 - 15.0000      GreenScreen: LT-UNK      RC: PreC      NANO: No      SUBSTANCE ROLE: Filler

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 V listing due to intrinsic safety

SUBSTANCE NOTES: Source of glass is window plate glass which is recycled from older buildings Living Building Challenge (LBC) Red List Approved

**ACRYLIC POLYMER**

%: 2.0000 - 5.0000

PRODUCT THRESHOLD: 1000 ppm      RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes      MATERIAL TYPE: Polymeric Material

RESIDUALS AND IMPURITIES NOTES: Based on the manufacturers PDS and SDS ,No Residuals or Impurities are expected to be present at or above Content Inventory Threshold that return a GreenScreen score of BM-1, LT-1, LT-P1 or NoGS

OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

**ACRYLIC POLYMER**

ID: 9063-87-0

HAZARD DATA SOURCE: Pharos Chemical and Materials Library      HAZARD SCREENING DATE: 2023-01-17 11:31:28

%: 2.0000 - 5.0000      GreenScreen: NoGS      RC: None      NANO: No      SUBSTANCE ROLE: Binder

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Living Building Challenge (LBC) Red List Approved

**GLASS FIBRE MATT**

%: 1.0000 - 3.0000

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: The continuous strand glassfibre matt contains a small amount of binder but the manufacturer does not disclose the exact type and nature of the binder. Based on the manufacturers SDS No Residuals or Impurities are expected to be present at or above Content Inventory Threshold that return a GreenScreen score of BM-1, LT-1, LT-P1 or NoGS

OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

**GLASS FIBERS**

ID: 308066-84-4

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-01-17 11:31:29**

%: 1.0000 - 3.0000

GreenScreen: **NoGS**RC: **Both**NANO: **No**SUBSTANCE ROLE: **Structure component**

HAZARD TYPE

LIST NAME AND SOURCE

WARNINGS

None found

No warnings found on HPD Priority Hazard Lists

ADDITIONAL LISTINGS

LIST NAME AND SOURCE

NOTIFICATION

None found

No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Continuous fibre glass reinforcing matt for panel strength and reinforcement  
Living Building Challenge (LBC) Red List Approved

**HYDRATED LIME**

%: 0.5000 - 2.0000

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Geologically Derived Material

RESIDUALS AND IMPURITIES NOTES: Hydrated lime will contain trace elements of calcium carbonate and clay. No Residuals or Impurities are expected to be present at or above Content Inventory Threshold that return a GreenScreen score of BM-1, LT-1, LT-P1 or NoGS.

OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

HAZARD DATA SOURCE: **Pharos Chemical and Materials Library** HAZARD SCREENING DATE: **2023-02-09 21:03:09**

%: **0.5000 - 2.0000** GreenScreen: **LT-P1** RC: **None** NANO: **No** SUBSTANCE ROLE: **Buffer**

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
SKI	GHS - Australia	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
MAM	GHS - Japan	H370 - Causes damage to organs [Specific target organs/systemic toxicity following single exposure - Category 1]
SKI	GHS - New Zealand	Skin corrosion category 1C
EYE	GHS - New Zealand	Serious eye damage category 1
EYE	GHS - Japan	H318 - Causes serious eye damage [Serious eye damage / eye irritation - Category 1]
SKI	GHS - Japan	H315 - Causes skin irritation [Skin corrosion / irritation - Category 2]
EYE	GHS - Australia	H318 - Causes serious eye damage [Serious eye damage/eye irritation - Category 1]

ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
RESTRICTED LIST	Cradle to Cradle Products Innovation Institute (C2CPPI)	C2C Certified v4 Product Standard Restricted Substances List (RSL) - Effective July 1, 2022  Cosmetics & Personal Care Products
RESTRICTED LIST	Green Science Policy Institute (GSPI)	GSPI - Six Classes of Problematic Chemicals  Antimicrobials

SUBSTANCE NOTES: Hydrated lime is added to ensure that the PH remains balanced.  
Living Building Challenge (LBC) Red List Approved

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Other Biological Material

RESIDUALS AND IMPURITIES NOTES: we are using a food grade citric acid and it is meant to have 99.9%purity. No Residuals or Impurities are expected to be present at or above Content Inventory Threshold that return a GreenScreen score of BM-1, LT-1, LT-P1 or NoGS.

OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

**CITRIC ACID**

ID: 77-92-9

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-02-09 21:17:05

%: 0.0500 - 0.1500 GreenScreen: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Processing regulator

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
SKI	GHS - Australia	H315 - Causes skin irritation [Skin corrosion/irritation - Category 2]
EYE	GHS - Australia	H319 - Causes serious eye irritation [Serious eye damage/eye irritation - Category 2A]
EYE	GHS - New Zealand	Serious eye damage category 1
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
POSITIVE LIST	US Environmental Protection Agency (US EPA)	US EPA - DfE Safer Chemicals Ingredients list (SCIL) Chelating Agents - Green Circle (Verified Low Concern)

SUBSTANCE NOTES: Citric acid is a set retarder for the gypsum and the addition level is varied within a small range Living Building Challenge (LBC) Red List Approved

**METHYL CELLULOSE**

%: 0.0200 - 0.1000

PRODUCT THRESHOLD: 1000 ppm

RESIDUALS AND IMPURITIES EVALUATION COMPLETED: Yes

MATERIAL TYPE: Other Biological Material

RESIDUALS AND IMPURITIES NOTES: Methyl cellulose is manufactured from wood cellulose and contains little or no impurities

OTHER MATERIAL NOTES: All substances in this material are below the reportable threshold.

**HYDROXYPROPYL METHYLCELLULOSE**

ID: 9004-65-3

HAZARD DATA SOURCE: Pharos Chemical and Materials Library HAZARD SCREENING DATE: 2023-02-09 21:03:11

%: 0.0500 - 0.1000 GreenScreen: LT-UNK RC: None NANO: No SUBSTANCE ROLE: Viscosity modifier

HAZARD TYPE	LIST NAME AND SOURCE	WARNINGS
None found		No warnings found on HPD Priority Hazard Lists
ADDITIONAL LISTINGS	LIST NAME AND SOURCE	NOTIFICATION
None found		No listings found on Additional Hazard Lists

SUBSTANCE NOTES: Living Building Challenge (LBC) Red List Approved



## 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

Eurofins Indoor Air Comfort - certified product

CERTIFYING PARTY: Third Party

ISSUE DATE: 2021-08-12

CERTIFIER OR LAB: Eurofins

APPLICABLE FACILITIES: Eurofins Product testing A/S

EXPIRY DATE:

CERTIFICATE URL:

CERTIFICATION AND COMPLIANCE NOTES: Indoor air comfort tested on the entire Armourcoat Acoustic system of which the Bondplast is a component.

## 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.*

### BONDPLAST

MANUFACTURER (OR GENERIC): Armourcoat Ltd

HPD URL: [https://hpdrepository.hpd-collaborative.org/Repository/HPDs/1035\\_Bondplast.pdf](https://hpdrepository.hpd-collaborative.org/Repository/HPDs/1035_Bondplast.pdf)

ACCESSORY TYPE: Adhesive

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Installation of Armourcoat Acoustic plaster system

## Section 5: General Notes



**MANUFACTURER INFORMATION**

**MANUFACTURER:** Armourcoat Ltd  
**ADDRESS:** Armourcoat Ltd  
**Unit 2&3 Morewood Close**  
**Sevenoaks Kent TN132HU, UK**  
**WEBSITE:** [www.armourcoat.co.uk](http://www.armourcoat.co.uk)

**CONTACT NAME:** Duncan Mackellar  
**TITLE:** Mr  
**PHONE:** +441732460668  
**EMAIL:** [technical@armourcoat.co.uk](mailto:technical@armourcoat.co.uk)

*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*

