**Section 1: Summary**

**Estructural Concrete by Cemex Mexico**

**HPD UNIQUE IDENTIFIER:** 20982

**CLASSIFICATION:** 03 31 00

**PRODUCT DESCRIPTION:** Estructural concrete as screened in this HPD conforms to the following specifications:

- **Weight of the mixture [kg/m³]:** 2285
- **Resistance to 28 days [MPa]:** 34.3
- **Nominal Revenge:** 18
- **Nominal air content [%]:** 2-3%
- **Water ratio in cementing material [%]:** 58.9%
- **Maximum size Gravel [mm]:** 20
- **Size of sand [mm]:** 4.75
- **Shrink Limit [%] @ 56 days:** 0.001

**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.

<table>
<thead>
<tr>
<th>MATERIAL</th>
<th>SUBSTANCE</th>
<th>RESIDUAL OR IMPURITY</th>
<th>GREENSCREEN SCORE</th>
<th>HAZARD TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SC:GEOMAT:GRAVEL</td>
<td>ALUMINUM OXIDE</td>
<td>BM-2</td>
<td>RES</td>
<td>END</td>
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<tr>
<td>SC:LIMESTONE</td>
<td>CAN</td>
<td>LIME</td>
<td>LT-P1</td>
<td>END</td>
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<tr>
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<td>MAGNESIUM OXIDE</td>
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<td>SULFUR TRIOXIDE</td>
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<td>SULFUR TRIOXIDE</td>
<td>BM-1</td>
<td>RES</td>
</tr>
</tbody>
</table>
| SC:QUARTZ | CAN | SULFUR TRIOXIDE | BM-1 | RES |... 

**VOLATILE ORGANIC COMPOUND (VOC) CONTENT**

VOC Content data is not applicable for this product category.

**CERTIFICATIONS AND COMPLIANCE**

- VOC emissions: LEED v4.1 Non Emitting Material
- LCA: Environmental Product Declaration

**CONSISTENCY WITH OTHER PROGRAMS**

LEED v4.1 *Yes ex/SC* result is due only to materials and substances for which Special Conditions were applied. Thus *Yes ex/SC* does not disqualify the product for the LEED v4 Materials and Resources Disclosure and Optimization credit, Option 1.

This inventory was made with primary information from Cemex CTCC (Mexico). Actual material was not tested therefore any information about residuals and impurities is listed simply as a reference based on scientific literature in Pharos and the toxnet databases. The presence of the residual or impurity substance can not be confirmed through the listing in this HPD. Cemex CTCC has made its best effort to collect product substance information and comply with the HPD format. Any errors are simply mistakes and notification of the Cemex contact should be made.
<table>
<thead>
<tr>
<th></th>
<th></th>
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<td>PUBLISHED DATE: 2020-07-09</td>
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<tr>
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</tbody>
</table>
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 2.1.1, available on the HPDC website at: www.hpd-collaborative.org/hpd-2-1-1-standard

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**SC:GEOMAT:GRAVEL**  
%: 36.0000 - 44.0000

**PRODUCT THRESHOLD:** 100 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes  
**MATERIAL TYPE:** Geologically Derived Material

**RESIDUALS AND IMPURITIES NOTES:** POTENTIAL RESIDUAL: "Building materials, such as concrete and dimension stone (sandstone, granite, and limestone are examples) contain crystalline silica in the form of quartz." (USGS Crystalline Silica Primer) Limestone typically contains between 0.1% and 1% quartz. (MSHA MSDS & Specialty MSDS) - Per the Pharos Database.

**OTHER MATERIAL NOTES:** SpecialConditionApplied:GeologicalMaterial --- Agregado grueso
SC: LIMESTONE

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-07-08

%: 100.0000
GS: Not Screened
RC: UNK
NANO: No
SUBSTANCE ROLE: Binder

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:
Version: SCGeoMats/2018-02-23
Origin: Mexico
Typical Composition: Limestone
Potential presence of toxic metals: This disclosure does not provide information on the potential presence of toxic metals.
Presence of Radioactive Elements: This disclosure does not provide radioactive elements which may be found in certain geological materials.
The presence of residuals and impurities is based on the Pharos database and is for reference only. The actual product has not been tested for residuals or impurities.

SC: QUARTZ

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library
HAZARD SCREENING DATE: 2020-07-08

%: Impurity/Residual
GS: Not Screened
RC: UNK
NANO: No
SUBSTANCE ROLE: Impurity/Residual

HAZARD TYPE
AGENCY AND LIST TITLES
WARNINGS

Hazard Screening not performed

SUBSTANCE NOTES:
Version: SCGeoMats/2018-02-23
Origin: Mexico
Typical Composition: This disclosure does not provide typical composition.
Potential presence of toxic metals: This disclosure does not provide information on the potential presence of toxic metals.
Presence of Radioactive Elements: This disclosure does not provide radioactive elements which may be found in certain geological materials.
POTENTIAL RESIDUAL: "Building materials, such as concrete and dimension stone (sandstone, granite, and limestone are examples) contain crystalline silica in the form of quartz." (USGS Crystalline Silica Primer) Limestone typically contains between 0.1% and 1% quartz. (MSHA MSDS & Specialty MSDS) - Per the Pharos Database.

SC: GEOMAT: CRUSHEDSTONE (FINE)/ AGREGADO FINE

PRODUCT THRESHOLD: 100 ppm
RESIDUALS AND IMPURITIES CONSIDERED: Yes
MATERIAL TYPE: Geologically Derived Material

%: 31.0000 - 36.0000
RESIDUALS AND IMPURITIES NOTES: The presence of quartz as a residual is defined by the Pharos database at 0.1-1%. The actual material used has not been tested and therefore the presence at what quantity is unknown.

OTHER MATERIAL NOTES: SpecialConditionApplied:GeologicalMaterial
### SC:SAND

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-07-08

<table>
<thead>
<tr>
<th>%: 100.0000</th>
<th>GS: Not Screened</th>
<th>RC: UNK</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Binder</th>
</tr>
</thead>
</table>

**SUBSTANCE NOTES:**
- **Version:** SCGeoMats/2018-02-23
- **Origin:** Mexico
- **Typical Composition:** This disclosure does not provide typical composition.
- **Potential presence of toxic metals:** This disclosure does not provide information on the potential presence of toxic metals.
- **Presence of Radioactive Elements:** This disclosure does not provide radioactive elements which may be found in certain geological materials.

**POTENTIAL RESIDUAL:** "Building materials, such as concrete and dimension stone (sandstone, granite, and limestone are examples) contain crystalline silica in the form of quartz." (USGS Crystalline Silica Primer) Limestone typically contains between 0.1% and 1% quartz. (MSHA MSDS & Specialty MSDS) - Per the Pharos Database.

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### SC:QUARTZ

**HAZARD SCREENING METHOD:** Pharos Chemical and Materials Library  
**HAZARD SCREENING DATE:** 2020-07-08

<table>
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<tr>
<th>%: Impurity/Residual</th>
<th>GS: Not Screened</th>
<th>RC: UNK</th>
<th>NANO: No</th>
<th>SUBSTANCE ROLE: Impurity/Residual</th>
</tr>
</thead>
</table>

**SUBSTANCE NOTES:**
- **Version:** SCGeoMats/2018-02-23
- **Origin:** Mexico
- **Typical Composition:** This disclosure does not provide typical composition.
- **Potential presence of toxic metals:** This disclosure does not provide information on the potential presence of toxic metals.
- **Presence of Radioactive Elements:** This disclosure does not provide radioactive elements which may be found in certain geological materials.

**POTENTIAL RESIDUAL:** "Building materials, such as concrete and dimension stone (sandstone, granite, and limestone are examples) contain crystalline silica in the form of quartz." (USGS Crystalline Silica Primer) Limestone typically contains between 0.1% and 1% quartz. (MSHA MSDS & Specialty MSDS) - Per the Pharos Database.

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### CEMENT

**%:** 15.0000 - 25.0000

**PRODUCT THRESHOLD:** 100 ppm  
**RESIDUALS AND IMPURITIES CONSIDERED:** Yes  
**MATERIAL TYPE:** Geologically Derived Material

**RESIDUALS AND IMPURITIES NOTES:** According to the Pharos database Portland cement as 14 different known or potential residuals and impurities. Only substances with a known presence above the 0.1 thresholds will be in this HPD and should be noted that they are for reference only. The presence of any of these residuals is unknown in the actual material. No testing has been conducted on the actual material.

**OTHER MATERIAL NOTES:**

### PORTLAND CEMENT

**ID:** 65997-15-1
HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2020-07-08

%: 100.0000  
GS: LT-P1  
RC: UNK  
NANO: No  
SUBSTANCE ROLE: Binder

HAZARD TYPE  
AGENCY AND LIST TITLES  
WARNINGS

ENDOCRINE  
TEDX - Potential Endocrine Disruptors  
Potential Endocrine Disruptor

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

SUBSTANCE NOTES: There are 14 potential residuals and impurities listed in the Pharos database. Only potentials with a known percentage above the threshold will be listed on this HPD. The presence of any of these residuals is unknown in the actual material. No testing has been conducted on the actual material.

ALUMINUM OXIDE  
ID: 1344-28-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2020-07-08

%: Impurity/Residual  
GS: BM-2  
RC: UNK  
NANO: No  
SUBSTANCE ROLE: Impurity/Residual

HAZARD TYPE  
AGENCY AND LIST TITLES  
WARNINGS

RESPIRATORY  
AOEC - Asthmagens  
Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Aluminum Oxide = 5% mass fraction of Portland Cement (NIST MSDS)

TSCA Definition 2008: Portland cement is a mixture of chemical substances produced by burning or sintering at high temperatures (greater than 1200.degree.C (2192.degree.F)) raw materials which are predominantly calcium carbonate, aluminum oxide, silica, and iron oxide. The chemical substances which are manufactured are confined in a crystalline mass. This category includes all of the chemical substances specified below when they are intentionally manufactured in the production of Portland cement. The primary members of the category are Ca2SiO4 and Ca3SiO5. Other compounds listed below may also be included in combination with these primary substances.: CaAl2O4; CaAl4O7; CaAl12O23; CaAl2O6; CaAl12O33; CaO; Ca2Fe2O5; Ca2Al2SiO7; Ca4Al6SO16; Ca12Al14Cl2O32; Ca12Al14F2O32; Ca4Al2Fe2O10; Ca6A14Fe2O15 (National Library of Medicine Record)

FERRIC OXIDE  
ID: 1309-37-1

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2020-07-08

%: 0.0000 - 4.0000  
GS: BM-1  
RC: UNK  
NANO: No  
SUBSTANCE ROLE: Residual

HAZARD TYPE  
AGENCY AND LIST TITLES  
WARNINGS

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

SUBSTANCE NOTES: Ferric Oxide = 4% mass fraction of Portland Cement (NIST MSDS)

LIME  
ID: 1305-78-8

HAZARD SCREENING METHOD: Pharos Chemical and Materials Library  
HAZARD SCREENING DATE: 2020-07-08

%: Impurity/Residual  
GS: LT-P1  
RC: UNK  
NANO: No  
SUBSTANCE ROLE: Impurity/Residual
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<th>Substance</th>
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<th>%</th>
<th>GS</th>
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<th>NANO</th>
<th>Substance Role</th>
<th>Hazards</th>
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<td>Silicon Dioxide</td>
<td>7631-86-9</td>
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<td>2020-07-08</td>
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<td>BM-1</td>
<td>UNK</td>
<td>No</td>
<td>Impurity/Residual</td>
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<td>1309-48-4</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-07-08</td>
<td>Impurity/Residual</td>
<td>LT-UNK</td>
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<td>No</td>
<td>Impurity/Residual</td>
<td>Cancer (MAK) Carcinogen Group 4 - Non-genotoxic carcinogen with low risk under MAK/BAT levels</td>
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<td>Sulfur Trioxide</td>
<td>7446-11-9</td>
<td>Pharos Chemical and Materials Library</td>
<td>2020-07-08</td>
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<td>Impurity/Residual</td>
<td>Mammalian (US EPA - EPCRA Extremely Hazardous Substances) Extremely Hazardous Substances</td>
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</table>

**Substance Notes:**
- Calcium Oxide (CAS No. 1305-78-8) = 64% mass fraction of Portland Cement (NIST MSDS) - Per Pharos database.
- Silicon Dioxide = 20% mass fraction of Portland Cement (NIST MSDS) - Per Pharos database.
- Magnesium Oxide = 1% mass fraction of Portland Cement (NIST MSDS) - Per Pharos database.
- Sulfur Trioxide = 3% mass fraction of Portland Cement (NIST MSDS) - Per Pharos database.

**WATER**

| % | 6.0000 - 10.0000 |
### WATER (PRIMARY CASRN IS 7732-18-5)

**Residuals and Impurities Considered:** Yes

**Material Type:** Other, Water

**Residuals and Impurities Notes:** No residuals or impurities were noted in the Pharos database.

**Other Material Notes:**

**WATER (PRIMARY CASRN IS 7732-18-5)**

<table>
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<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
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<tbody>
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<table>
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<tr>
<th>%</th>
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<th>RC</th>
<th>NANO</th>
<th>Substance Role</th>
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<td>100.0000</td>
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<td>UNK</td>
<td>No</td>
<td>Solvent</td>
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</table>

**Substance Notes:**

No residuals or impurities are registered for this substance per the Pharos database.

### UNDISCLOSED

**Product Threshold:** 100 ppm

**Residuals and Impurities Considered:** Yes

**Material Type:** Polymeric Material

**Residuals and Impurities Notes:** No residuals or impurities reported in the Pharos database.

**Other Material Notes:**

**UNDISCLOSED**

<table>
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<tr>
<th>HAZARD SCREENING METHOD</th>
<th>HAZARD SCREENING DATE</th>
</tr>
</thead>
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<table>
<thead>
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<th>%</th>
<th>GS</th>
<th>RC</th>
<th>NANO</th>
<th>Substance Role</th>
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</thead>
<tbody>
<tr>
<td>100.0000</td>
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<td>Accelerator</td>
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**Substance Notes:**

This additive is below 1000 ppm and part of Cemex's proprietary information.
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

<table>
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<th>CERTIFYING PARTY</th>
<th>LEED v4.1 Non Emitting Material</th>
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<td>Self-declared</td>
<td>ISSUE DATE: 2020-07-09</td>
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<tr>
<td>This is not a facility-specific designation.</td>
<td>EXPIRY DATE:</td>
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<td>CERTIFICATE URL:</td>
<td>CERTIFIER OR LAB: USGBC Leed</td>
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<tr>
<td>Credit: Low Emitting Materials</td>
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**CERTIFICATION AND COMPLIANCE NOTES:** Per the LEED v4.1 standard for Building Design and Construction, page 207, Concrete is a non-emitting source. No VOC testing for emissions is necessary.

### LCA

<table>
<thead>
<tr>
<th>CERTIFYING PARTY</th>
<th>Environmental Product Declaration</th>
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<tbody>
<tr>
<td>Third Party</td>
<td>ISSUE DATE: 2017-09-01 EXPIRY DATE:</td>
</tr>
<tr>
<td>Mexico City Business Unit at Armas Plant in Mexico City, Mexico</td>
<td>2022-09-01 CERTIFIER OR LAB: Athena</td>
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<tr>
<td>CERTIFICATE URL:</td>
<td>Sustainable Materials Institute</td>
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</table>

**CERTIFICATION AND COMPLIANCE NOTES:** EPD Number NRMCAEPD:10012

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

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.