

TYPE N MORTAR by Package Pavement - Spec Mix ®

CLASSIFICATION: 04 05 13 (MASONRY MORTARING)

PRODUCT DESCRIPTION: SPEC MIX® PORTLAND LIME & SAND TYPE N MORTAR (PCL) IS A DRY PRE-BLENDED MORTAR MIX CONTAINING PORTLAND CEMENT, HYDRATED LIME AND DRIED MASONRY SAND FORMULATED FOR SUPERIOR BOND, WATER RETENTION AND BOARD LIFE. OUR TYPE N MORTARS, SOLD UNDER THE SPEC MIX AND PACKAGE PAVEMENT BRANDS, COMPLY WITH ASTM C 270 AND ASTM C 1714 REQUIREMENTS. SPEC MIX TYPE N MORTAR IS AVAILABLE IN STANDARD OR CUSTOM COLORS AS WELL AS CUSTOM MIX DESIGNS FOR SPECIFIC APPLICATIONS OR PROPERTIES.

Section 1: Summary

CONTENT INVENTORY

- Threshold per material
- 100 ppm
 - 1,000 ppm
 - Per GHS SDS
 - Per OSHA MSDS
 - Other

Residuals and impurities considered in 0 of 3 materials

- see Section 2: Material Notes
- see Section 5: General Notes

Based on the selected Content Inventory Threshold:

| | | |
|---|----------------------------------|-----------------------|
| Characterized..... | <input checked="" type="radio"/> | <input type="radio"/> |
| Are the Percent Weight and Role provided for all substances? | Yes | No |
| Screened..... | <input checked="" type="radio"/> | <input type="radio"/> |
| Are all substances screened using Priority Hazard Lists with results disclosed? | Yes | No |
| Identified..... | <input checked="" type="radio"/> | <input type="radio"/> |
| Are all substances disclosed by Name (Specific or Generic) and Identifier? | Yes | No |

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.

Number of Greenscreen BM-4/BM3 contents..... 1
 Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1
 Nanomaterial..... No

MATERIAL | SUBSTANCE | RESIDUAL OR IMPURITY
GREENSCREEN SCORE | HAZARD TYPE

TYPE N MORTAR - STD GRAY [QUARTZ **LT-1** | CAN] GRAY PORTLAND CEMENT - TYPE I/II (CAS# 65997-15-1) [TRICALCIUM SILICATE **LT-UNK** DICALCIUM SILICATE **LT-UNK** CALCIUM ALUMINATE **LT-UNK** LIMESTONE; CALCIUM CARBONATE **LT-UNK** GYPSUM **LT-UNK**] HYDRATED LIMOID TYPE S (CAS# NOT AVAILABLE) [CALCIUM HYDROXIDE **LT-UNK** MAGNESIUM HYDROXIDE **BM-3**]

INVENTORY AND SCREENING NOTES:

The primary binders of this preblended mortar, Portland Cement and Hydrated Lime are deconstructed to list the raw materials used for producing these material components of mortar. Please note that the LT-1 (BM-1) warning that is applied to Quartz Sand used in all ASTM C270 specified mortar mixes, only applies to this product in its dry form when handled, mixed with water for placement or aggravated during demolition (including but not limited to, cutting, drilling, chipping, crushing or milling). Once the mortar has cured in place the primary risk of silica dust is diffused, as is the case with quartz countertops and glass windows.

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

No certifications have been added to this HPD.

| | | | |
|--|-----------------|----------------------------------|--|
| <input checked="" type="radio"/> Self-Published* | VERIFIER: | SCREENING DATE: February 3, 2017 | EXPIRY DATE*: February 3, 2020 |
| <input type="radio"/> Third Party Verified | VERIFICATION #: | RELEASE DATE: May 24, 2017 | * or within 3 months of significant change in product contents |

*See HPDC website for details



Section 2: Content in Descending Order of Quantity

This section lists materials in a product and the substances in each material based on the Inventory Threshold for each material. If residuals or impurities from the manufacturing or extraction processes are considered for a material, these are inventoried and characterized to the extent described in the Material and/or General Notes. Chemical substances are screened against the HPD Priority Hazard Lists for human and environmental health impacts. Screening is based on best available information; "Not Found" does not necessarily mean there is no potential hazard associated with the product or its contents. More information about Priority Hazard Lists and the GreenScreen can be found online: www.hpd-collaborative.org and www.greenscreenchemicals.org.

TYPE N MORTAR - STD GRAY

%: 100.0000 - 100.0000

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes: Material Notes: Pre-Blended Product Composed of Mason Sand, Portland Cement and Hydrated Lime. Total Pre-Consumer Recycled Content is 1.5%.

QUARTZ

ID: 14808-60-7

%: 75.0000 - 80.0000

GS: LT-1

RC: None

NANO: NO

ROLE: Aggregate

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

US CDC - Occupational Carcinogens

Occupational Carcinogen

CANCER

CA EPA - Prop 65

Carcinogen - specific to chemical form or exposure route

CANCER

IARC

Group 1: Agent is carcinogenic to humans - inhaled from occupational sources

CANCER

US NIH - Report on Carcinogens

Known to be Human Carcinogen (respirable size - occupational setting)

CANCER

MAK

Carcinogen Group 1 - Substances that cause cancer in man

SUBSTANCE NOTES: Risk is associated with quartz dust exposure during mixing of the dry product. There is no risk of dust exposure when the product is activated with water and cured in place.

GRAY PORTLAND CEMENT - TYPE I/II (CAS# 65997-15-1)

%: 13.5000 - 16.5000

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

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

TRICALCIUM SILICATE

ID: 12168-85-3

%: 7.2000 - 9.8000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Cement - Raw Material

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

DICALCIUM SILICATE

ID: 10034-77-2

| | | | | |
|--------------------|------------|----------|----------|-----------------------------|
| %: 3.0000 - 4.0000 | GS: LT-UNK | RC: None | NANO: NO | ROLE: Cement - Raw Material |
|--------------------|------------|----------|----------|-----------------------------|

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

CALCIUM ALUMINATE

ID: 12042-78-3

| | | | | |
|--------------------|------------|----------|----------|-----------------------------|
| %: 1.7000 - 2.4000 | GS: LT-UNK | RC: None | NANO: NO | ROLE: Cement - Raw Material |
|--------------------|------------|----------|----------|-----------------------------|

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

| | | | | |
|--------------------|------------|----------|----------|-----------------------------|
| %: 1.0000 - 2.2000 | GS: LT-UNK | RC: None | NANO: NO | ROLE: Cement - Raw Material |
|--------------------|------------|----------|----------|-----------------------------|

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

GYPSUM

ID: 13397-24-5

| | | | | |
|--------------------|------------|----------|----------|-----------------------------|
| %: 0.7500 - 1.5000 | GS: LT-UNK | RC: None | NANO: NO | ROLE: Cement - Raw Material |
|--------------------|------------|----------|----------|-----------------------------|

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

HYDRATED LIMOID TYPE S (CAS# NOT AVAILABLE) %: 5.5000 - 7.0000 HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: No

Material Notes:

CALCIUM HYDROXIDE

ID: 1305-62-0

| | | | | |
|--------------------|------------|----------|----------|---------------------------|
| %: 3.0000 - 4.5000 | GS: LT-UNK | RC: None | NANO: NO | ROLE: Lime - Raw Material |
|--------------------|------------|----------|----------|---------------------------|

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

MAGNESIUM HYDROXIDE

ID: 1309-42-8

| | | | | |
|--------------------|----------|----------|----------|---------------------------|
| %: 1.8000 - 3.1000 | GS: BM-3 | RC: None | NANO: NO | ROLE: Lime - Raw Material |
|--------------------|----------|----------|----------|---------------------------|

HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

**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.

**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.

**Section 5: General Notes**

This product is crafted to meet or exceed the specifications of ASTM C270 and CSA A179 when mixed and used in accordance with industry standards and practices. Prior to use, the user must be made aware of the risks of silica dust, and the chemical risks associated with exposure of Portland cement and lime, which can cause serious damage to skin, eyes and lungs. Proper safety gear must be used, including waterproof safety gloves and work boots, an ANSI approved dust mask and eye protection and long sleeve shirt to avoid exposure.



MANUFACTURER INFORMATION

MANUFACTURER: Package Pavement - Spec Mix

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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 | GLO Global warming | PHY Physical Hazard (reactive) |
| CAN Cancer | MAM Mammalian/systemic/organ toxicity | REP Reproductive toxicity |
| DEV Developmental toxicity | MUL Multiple hazards | RES Respiratory sensitization |
| END Endocrine activity | NEU Neurotoxicity | SKI Skin sensitization/irritation/corrosivity |
| EYE Eye irritation/corrosivity | OZO Ozone depletion | LAN Land Toxicity |
| GEN Gene mutation | PBT Persistent Bioaccumulative Toxic | NF Not found on Priority Hazard Lists |

GreenScreen (GS)

- | | |
|---|--|
| BM-4 Benchmark 4 (prefer-safer chemical) | LT-P1 List Translator Possible Benchmark 1 |
| BM-3 Benchmark 3 (use but still opportunity for improvement) | LT-1 List Translator Likely Benchmark 1 |
| BM-2 Benchmark 2 (use but search for safer substitutes) | LT-UNK List Translator Benchmark Unknown (insufficient information from List Translator lists to benchmark) |
| BM-1 Benchmark 1 (avoid - chemical of high concern) | UNK Unknown (no data on List Translator Lists) |
| BM-U Benchmark Unspecified (insufficient data to benchmark) | |

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

Other

- Nano** Composed of nanoscale particles or nanotechnology

Declaration Level

- Self-declared** Manufacturer's self-declaration (First Party)
- Independent Lab** Manufacturer's self-declaration using results from an independent lab
- Second Party** Verification by trade association or other interested party
- Third Party** Verification by independent certifier
- 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 does not provide an assessment of health impacts throughout the product life cycle. It does not provide an assessment of exposure or risk associated with product handling or use. It also does not address potential health impacts of: (i) substances used or created during the manufacturing process unless they remain in the final product, or (ii) substances created after the product is delivered for end use (e.g., if the product burns, degrades, or otherwise changes chemical composition).

The HPD Open Standard was created and is maintained and evolved by the Health Product Declaration Collaborative (the HPD Collaborative), a customer-led organization composed of stakeholders throughout the building industry. The HPD Collaborative is committed to the continuous improvement of building products through transparency, openness, and innovation throughout the product supply chain.

A disclosure completed in compliance with the HPD Open Standard is referred to as a "Health Product Declaration," or "HPD." 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 Open Standard noted.