

CLASSIFICATION: 09 28 00.00 FINISHES: BACKING BOARDS AND UNDERLAYMENTS

PRODUCT DESCRIPTION: GOLD BOND® BRAND EXP® TILE BACKER CONSISTS OF A MOISTURE- AND MOLD-RESISTANT GYPSUM CORE ENCASED IN AN ACRYLIC-COATED, SPECIALLY DESIGNED FIBERGLASS MAT ON THE FACE, BACK AND SIDES. IT IS AVAILABLE IN EITHER A REGULAR OR TYPE X CORE. THE GLASS MAT IS FOLDED AROUND THE LONG EDGES TO REINFORCE AND PROTECT THE CORE. USE IT AS A SUBSTRATE FOR TILE APPLICATIONS IN HIGH-MOISTURE AREAS, INCLUDING SHOWERS, BATHROOMS, INDOOR SWIMMING POOLS, LAUNDRY ROOMS AND KITCHENS. IT IS ALSO A CODE-COMPLIANT SUBSTRATE FOR TILE AND OTHER FINISHES IN BOTH WET AND NON-WET AREAS, AREAS OF HIGH HUMIDITY AND FIRE-RATED ASSEMBLIES. IT IS IDEALLY SUITED FOR A VARIETY OF INTERIOR APPLICATIONS. THIS HPD COVERS 5/8" GOLD BOND® BRAND EXP® TILE BACKER FIRE-SHIELD® TYPE X GYPSUM PANEL.

Section 1: Summary

CONTENT INVENTORY

Based on the selected Content Inventory Threshold:

Threshold per material	Residuals and impurities considered in 2 of 2 materials	Characterized.....	<input checked="" type="radio"/>	<input type="radio"/>
<input type="radio"/> 100 ppm	<input checked="" type="radio"/> see Section 2:	Are the Percent Weight and Role provided for all substances?	Yes	No
<input checked="" type="radio"/> 1,000 ppm	<input checked="" type="radio"/> see Section 5:	Screened.....	<input checked="" type="radio"/>	<input type="radio"/>
<input type="radio"/> Per GHS SDS	Material Notes	Are all substances screened using Priority Hazard Lists with results disclosed?	Yes	No
<input type="radio"/> Per OSHA MSDS	<input checked="" type="radio"/> see Section 5:	Identified.....	<input type="radio"/>	<input checked="" type="radio"/>
<input type="radio"/> Other	General Notes	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..... 0
Contents highest concern GreenScreen Benchmark or List translator Score..... LT-1
Nanomaterial..... No

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

EXP GYPSUM CORE [GYPSUM **LT-UNK** GLASS / MINERAL FIBER **LT-UNK** | CAN STARCH **LT-UNK** SILOXANES AND SILICONES, DI-ME, POLYMERS WITH 3-MERCAPTOPROPYL SILSESQUIOXANES **LT-UNK** SODIUM POLYNAPHTHALENESULFONATE **LT-P1** | PBT] COATED FIBERGLASS MAT [LIMESTONE; CALCIUM CARBONATE **LT-UNK** GLASS / MINERAL FIBER **LT-UNK** | CAN KAOLIN CLAY **LT-UNK** | CAN UNDISCLOSED **LT-UNK** UNDISCLOSED **LT-UNK** MICA **LT-UNK** POTASSIUM METHYLSILANETRIOLATE **NoGS** POLYACRYLIC ACID, SODIUM SALT **LT-UNK** UNDISCLOSED **LT-P1** | RES SILICA, AMORPHOUS **LT-P1** QUARTZ **LT-1** | CAN]

INVENTORY AND SCREENING NOTES:

This Health Product Declaration (HPD) was completed in accordance with the HPD Standard version 2.0, 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 percent weight. Therefore, this HPD is consistent with the LEED v4 MR credit Building Product Disclosure and Optimization: Material Ingredient Reporting (Option 1).

VOLATILE ORGANIC COMPOUND (VOC) CONTENT

VOC Content data is not applicable for this product category.

CERTIFICATIONS AND COMPLIANCE

VOC emissions: GREENGUARD Gold Certified
VOC emissions: GREENGUARD Certified
Other: ICC-ES Evaluation Report (ESR-3234)

See Section 3 for additional listings.

<input checked="" type="radio"/> Self-Published*	VERIFIER:	SCREENING DATE: May 1, 2017	EXPIRY DATE*: May 1, 2020
<input type="radio"/> Third Party Verified	VERIFICATION #:	RELEASE DATE: May 15, 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.

EXP GYPSUM CORE

%: 96.0000 - 97.2000

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: Yes

Material Notes: No residuals or impurities are known or expected to be present at or above the Content Inventory Threshold indicated that have a GS score of BM-1, LT-1 or LT-P1 based on batch testing, supplier SDS, and as predicted by process chemistry (Pharos CML).

GYPSUM

ID: 13397-24-5

%: 98.8000 - 99.2000

GS: LT-UNK

RC: PreC

NANO: NO

ROLE: Substrate

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: May also include CASRN 10101-41-4 (LT-UNK; No warnings found on HPD Priority lists). Five National Gypsum plants produce gypsum board exclusively with Pre-Consumer (Post-Industrial) byproduct gypsum [Shippingport, PA; Apollo Beach, FL; Mt. Holly, NC; Westwego, LA; Shoals, IN]. Ten National Gypsum plants produce gypsum board exclusively with natural rock gypsum [Burlington, NJ; Fort Dodge, IA; Long Beach, CA; Medicine Lodge, KS; National City, MI; Phoenix, AZ; Portsmouth, NH; Richmond, CA; Rotan, TX; Savannah, GA]. Two National Gypsum plants produce gypsum board with a blend of Pre-Consumer (Post-Industrial) byproduct gypsum and natural rock gypsum [Baltimore, MD; Waukegan, IL].

GLASS / MINERAL FIBER

ID: 65997-17-3

%: 0.3000 - 0.4000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Core Strength, Fire Resistance

HAZARDS:

AGENCY(IES) WITH WARNINGS:

CANCER

EU - R-phrases

R40 - Limited Evidence of Carcinogenic Effects

CANCER

EU - GHS (H-Statements)

H351 - Suspected of causing cancer

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

STARCH

ID: 9005-25-8

%: 0.3000 - 0.4000

GS: LT-UNK

RC: None

NANO: NO

ROLE: Improves Binding, Core Strength

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

SILOXANES AND SILICONES, DI-ME, POLYMERS WITH 3-MERCAPTOPROPYL SILSESQUIOXANES

ID: 108775-26-4

%: 0.1000 - 0.2000 GS: LT-UNK RC: None NANO: NO ROLE: Moisture Resistance

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Silicone

SODIUM POLYNAPHTHALENESULFONATE

ID: 9084-06-4

%: 0.0300 - 0.0400 GS: LT-P1 RC: None NANO: NO ROLE: Dispersant; Reduces process water demand and energy consumption

HAZARDS:

AGENCY(IES) WITH WARNINGS:

PBT

EC - CEPA DSL

Persistent, Bioaccumulative and inherently Toxic (PBiTH) to humans

SUBSTANCE NOTES: This substance falls below the Content Inventory Threshold indicated; however, we have included this substance in an effort to provide full transparency for this product. Efforts are being made to find a suitable replacement for this dispersant that has fewer hazards.

COATED FIBERGLASS MAT

%: 2.8000 - 4.0000

HPD URL:

Inventory Threshold: 1000 ppm

Residuals Considered: Yes

Material Notes: Residuals or impurities with the potential to be present at or above the Content Inventory Threshold indicated that return a GS score of BM-1, LT-1 or LT-P1 have been disclosed, based on information provided in supplier disclosure letters, supplier SDS, and as predicted by process chemistry (Pharos CML). Percent by weight of substances reported as a range in order to further protect the proprietary nature of this formulation.

LIMESTONE; CALCIUM CARBONATE

ID: 1317-65-3

%: 45.0000 - 50.0000 GS: LT-UNK RC: None NANO: NO ROLE: Filler

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

GLASS / MINERAL FIBER

ID: 65997-17-3

%: 20.0000 - 25.0000 GS: LT-UNK RC: None NANO: NO ROLE: Substrate

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

CANCER	EU - R-phrases	R40 - Limited Evidence of Carcinogenic Effects
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CANCER	EU - GHS (H-Statements)	H351 - Suspected of causing cancer
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SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

KAOLIN CLAY

ID: 1332-58-7

%: 20.0000 - 25.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Filler
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HAZARDS:**AGENCY(IES) WITH WARNINGS:**

CANCER	MAK	Carcinogen Group 3B - Evidence of carcinogenic effects but not sufficient for classification
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SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

UNDISCLOSED

%: 1.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Binder
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HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Supplier has disclosed substance name and CASRN under a Non-Disclosure Agreement; substance to remain proprietary to supplier. Substance has been screened against the HPD Priority lists with results disclosed.

UNDISCLOSED

%: 1.0000 - 5.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Binder
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HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES: Supplier has disclosed substance name and CASRN under a Non-Disclosure Agreement; substance to remain proprietary to supplier. Substance has been screened against the HPD Priority lists with results disclosed.

MICA

ID: 12001-26-2

%: 0.1000 - 1.0000	GS: LT-UNK	RC: None	NANO: NO	ROLE: Filler
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HAZARDS:**AGENCY(IES) WITH WARNINGS:**

None Found	No warnings found on HPD Priority lists
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SUBSTANCE NOTES:

POTASSIUM METHYLSILANETRIOLATE

ID: 31795-24-1

%: 0.1000 - 1.0000 GS: NoGS RC: None NANO: NO ROLE: Water Repellent

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES:

POLYACRYLIC ACID, SODIUM SALT

ID: 9003-04-7

%: 0.1000 - 1.0000 GS: LT-UNK RC: None NANO: NO ROLE: Dispersant

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Identified on the US EPA Safer Chemical Ingredient List.

UNDISCLOSED

%: 0.1000 - 1.0000 GS: LT-P1 RC: None NANO: NO ROLE: Binder

HAZARDS:

AGENCY(IES) WITH WARNINGS:

RESPIRATORY

AOEC - Asthmagens

Asthmagen (Rs) - sensitizer-induced

SUBSTANCE NOTES: Supplier has disclosed substance name and CASRN under a Non-Disclosure Agreement; substance to remain proprietary to supplier. Substance has been screened against the HPD Priority lists with results disclosed. Supplier has confirmed the upper limit for residuals of concern related to this binder component, which fall below the Content Inventory Threshold indicated for this material.

SILICA, AMORPHOUS

ID: 7631-86-9

%: Impurity/Residual GS: LT-P1 RC: None NANO: NO ROLE: Impurity/Residual

HAZARDS:

AGENCY(IES) WITH WARNINGS:

None Found

No warnings found on HPD Priority lists

SUBSTANCE NOTES: Potential Impurity/Residual of Glass/Mineral Fiber (Pharos CML).

%: Impurity/Residual	GS: LT-1	RC: None	NANO: NO	ROLE: Impurity/Residual
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HAZARDS:**AGENCY(IES) WITH WARNINGS:**

CANCER	US CDC - Occupational Carcinogens	Occupational Carcinogen
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
CANCER	CA EPA - Prop 65	Carcinogen - specific to chemical form or exposure route

SUBSTANCE NOTES: Quartz is one of several compounds with warnings restricted to respirable forms (Pharos CML). Exposures to respirable crystalline silica are not expected during the recommended use of this product. Awaiting full GreenScreen Assessment for form specific hazards for this compound (<http://ow.ly/Z5ken>).



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

CERTIFYING PARTY: Third Party
 APPLICABLE FACILITIES: All
 CERTIFICATE URL: certificates.ulenvironment.com/default.aspx?id=15926&t=cs
 CERTIFICATION AND COMPLIANCE NOTES: Certification Number: Number: 15926-420

GREENGUARD Gold Certified

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2008-12-31	2017-12-31	UL Environment

VOC EMISSIONS

CERTIFYING PARTY: Third Party
 APPLICABLE FACILITIES: All
 CERTIFICATE URL: certificates.ulenvironment.com/default.aspx?id=15926&t=gg
 CERTIFICATION AND COMPLIANCE NOTES: Certificate Number: 15926-410.

GREENGUARD Certified

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2008-12-31	2017-12-31	UL Environment

OTHER

CERTIFYING PARTY: Third Party
 APPLICABLE FACILITIES: All
 CERTIFICATE URL: http://designcenter.nationalgypsum.com/storage/components/pdf/ESR-3234_2016.pdf
 CERTIFICATION AND COMPLIANCE NOTES: ESR-3234. EVALUATION SUBJECT: GOLD BOND BRAND e2XP 1/2-INCH INTERIOR EXTREME®; GOLD BOND® BRAND e2XP® 5/8-INCH FIRE-SHIELD® INTERIOR EXTREME® TYPE X; GOLD BOND® BRAND e2XP® 1/2-INCH TILE BACKER; AND GOLD BOND BRAND e XP 1/8-INCH FIRE-SHIELD BACKER TYPE X.
 EVALUATION SCOPE: Compliance with the following codes: 2009 International Building Code® (IBC); 2009 International Residential Code® (IRC); 2013 Abu Dhabi International Building Code (ADIBC). Properties evaluated: Physical properties; Fire resistance; Surface burning characteristics

ICC-ES Evaluation Report (ESR-3234)

ISSUE DATE:	EXPIRY DATE:	CERTIFIER OR LAB:
2016-08-01	2017-08-01	ICC Evaluation Service



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.

ALKALI-RESISTANT FIBERGLASS MESH TAPE

HPD URL: No HPD Available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Used to treat joints during installation as a substrate for tile, as referenced in ICC Evaluation Report (ESR 3234).

MORTAR OR ADHESIVE

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: Used to treat joints during installation as a substrate for tile, as referenced in ICC Evaluation Report (ESR 3234).

FASTENERS

HPD URL: No HPD available

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: As referenced in ICC Evaluation Report (ESR 3234).

PROFORM® PAPER JOINT TAPE

HPD URL: <http://designcenter.nationalgypsum.com/sustainability/category/health-product-declaration-hpd>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: For dry, non-tile application: Outside the wet areas of showers and baths, tape joints with gypsum board tape, such as ProForm® Paper Joint Tape, and embed with setting tape joint compound. Skim the entire surface with a joint compound to create a smooth surface for finishing. Use setting compound or all-purpose ready mix joint compound for skim coat.

PROFORM® QUICK SET SETTING COMPOUND

HPD URL: <http://designcenter.nationalgypsum.com/sustainability/category/health-product-declaration-hpd>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: For dry, non-tile application: Outside the wet areas of showers and baths, tape joints with gypsum board tape and embed with setting tape joint compound, such as ProForm® Quick Set Setting Compound. Skim the entire surface with a joint compound to create a smooth surface for finishing. Use setting compound or all-purpose ready mix joint compound for skim coat.

PROFORM® READY MIX JOINT COMPOUNDS (VOC <2 G/L)

HPD URL: <http://designcenter.nationalgypsum.com/sustainability/category/health-product-declaration-hpd>

CONDITION WHEN RECOMMENDED OR REQUIRED AND/OR OTHER NOTES: For dry, non-tile application: Outside the wet areas of showers and baths, tape joints with gypsum board tape and embed with setting tape joint compound. Skim the entire surface with a joint compound to create a smooth surface for finishing. Use setting compound or all-purpose ready mix joint compound, such as ProForm® Ready Mix Joint Compound, for skim coat.

 **Section 5: General Notes**

Residuals and Impurities have been considered as stated in the Material Notes for each disclosed material.



MANUFACTURER INFORMATION

MANUFACTURER: National Gypsum Company

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USA

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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) BM-2
Benchmark 2 (use but search for safer substitutes)

LT-1 List Translator Likely Benchmark 1

BM-1 Benchmark 1 (avoid - chemical of high concern)

LT-UNK List Translator Benchmark Unknown (insufficient
information from List Translator lists to benchmark)

BM-U Benchmark Unspecified (insufficient data to benchmark)

UNK Unknown (no data on List Translator Lists)

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.