## SAFETY DATA SHEET

## **Section 1: IDENTIFICATION**

#### 1.1 PRODUCT IDENTIFIER

Product Name: VersaBond Flex® Professional Thin-Set Mortar

Product Code: Not Available

### 1.2 RECOMMENDED USE OF CHEMICAL AND RESTRICTIONS ON USE

Product Use: Mortar

### 1.3 DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEETS

Name/Address: Custom Building Products

Five Concourse Parkway, Suite 1900

Atlanta, GA 30328

**Telephone Number:** 1-(800)-272-8786

### 1.4 EMERGENCY TELEPHONE NUMBER

**Emergency Telephone** INFOTRAC 1-800-535-5053 (US and Canada)

Number: INTERNATIONAL + 1-352-323-3500

## Section 2: HAZARD(S) IDENTIFICATION

# 2.1 CLASSIFICATION OF THE CHEMICAL IN ACCORDANCE WITH PARAGRAPH (d) OF 29 CFR 1910.1200 (OSHA HAZCOM2012)

Skin Irritation Category 2
Serious Eye Damage Category 1
Skin Sensitization Category 1B
Specific Target Organ Toxicity—Single Exposure Category 3
Specific Target Organ Toxicity—Repeated Exposure Category 1
Carcinogenicity Category 1A

## 2.2 LABEL ELEMENTS ACCORDING TO OSHA HAZCOM2012

### 2.2a SIGNAL WORD:

DANGER!

#### 2.2b HAZARD STATEMENTS

Causes skin irritation

Causes serious eye damage

May cause an allergic skin reaction

May cause respiratory irritation

Causes damage to lungs through prolonged or repeated inhalation of dust

May cause cancer through inhalation of dust



## **SAFETY DATA SHEET**

### 2.2c HAZARD PICTOGRAMS



## 2.2d PRECAUTIONARY STATEMENTS

i.	PREVENTION	Wash hands thoroughly after handling. Do not breathe dust. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear impervious gloves/protective clothing/eye protection.
ii.	RESPONSE	If on skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: call a poison center/doctor. If swallowed: Rinse mouth. Do NOT induce vomiting. If exposed or concerned: get medical advice/attention.
iii.	STORAGE	Store in a well-ventilated place. Store locked up. Keep container tightly closed.
iv.	DISPOSAL	Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations.

### 2.3 ADDITIONAL INFORMATION

# 2.3a HNOC – HAZARDS NOT OTHERWISE CLASSIFIED Not Applicable

## 2.3b UNKNOWN ACUTE TOXICITY

<1% of the mixture consists of ingredient(s) of unknown acute toxicity.

## **Section 3: COMPOSITION/INFORMATION ON INGREDIENTS**

#### 3.1 MIXTURES

Chemical Name	CAS Number	Weight %
Crystalline Silica, Quartz	14808-60-7	40 – 70%*
Portland Cement	65997-15-1	15 – 40%*
Calcium Carbonate	1317-65-3	10 – 30%*

<sup>\*</sup>Means that the component will fall into one the ranges specified due to batch-to-batch variability.

## **Section 4: FIRST-AID MEASURES**

## 4.1 DESCRIPTION OF THE FIRST-AID MEASURES

## SAFETY DATA SHEET

ROUTES OF EXPOSURE DESCRIPTION

**Eye Contact:** In case of contact, immediately flush eyes with plenty of water for at

least 15 minutes. If easy to do, remove contact lenses, if worn. Get

medical attention immediately.

**Skin Contact:** In case of contact, immediately flush skin with plenty of water.

Remove contaminated clothing and shoes. Wash clothing before

reuse. Call a physician if irritation develops and persists.

**Inhalation:** If breathing is difficult, remove victim to fresh air and keep at rest in

a position comfortable for breathing. Get medical advice/attention if

you feel unwell.

**Ingestion:** If swallowed, do NOT induce vomiting unless directed to do so by

medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.

### 4.2 MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

ROUTES OF EXPOSURE	DESCRIPTION
Eye Contact:	Causes serious eye damage. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Skin Contact:	Causes skin irritation. Handling can cause dry skin, discomfort,

irritation, and dermatitis. May cause sensitization by skin contact.

**Inhalation:** May cause respiratory tract irritation. Causes damage to organs

through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious

disabling and fatal lung disease.

Ingestion: May be harmful if swallowed. Ingestion may cause discomfort

and/or distress, nausea or vomiting.

### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

**Note to Physicians:** Symptoms may not appear immediately.

Specific Treatments: In case of accident or if you feel unwell, seek medical advice

immediately (show the label or SDS where possible).

### Section 5: FIRE-FIGHTING MEASURES

### 5.1 FLAMMABILITY

Flammability: Not Flammable/Not Combustible by WHMIS/OSHA HAZCOM2012 Criteria

### 5.2 EXTINGUISHING MEDIA

### 5.2a. Suitable Extinguishing Media:

Treat for surrounding material.

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## 5.2b. Unsuitable Extinguishing Media:

Not Available

#### 5.3 SPECIFIC HAZARDS ARISING FROM THE CHEMICAL

#### 5.3a. Products of Combustion:

May include, and are not limited to: oxides of carbon and hydrogen sulfide

### 5.3b. Explosion Data

i. Sensitivity to Mechanical Impact:

Not Available

ii. Sensitivity to Static Discharge:

Not Available

#### 5.4 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS

Keep upwind of fire. Wear full fire fighting turn-out gear(full bunker gear) and respiratory protection (SCBA).

## Section 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

### 6.2 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

**Methods for Containment:** Recover all usable material. Pick up large pieces, and then place in

a suitable container. Do not flush to sewer or allow to enter

waterways. Use appropriate Personal Protective Equipment (PPE).

**Methods for Cleaning-Up:** Vacuum or sweep material and place in a disposal container.

Dispose of unwanted material properly in accordance with all local,

regional, national and international regulations.

## Section 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

Handling: Use in well-ventilated areas. Wear impervious gloves and eye

protection. Do not mix with other chemical products, except as indicated by the manufacturers. Do not get in eyes. Do not get on skin or clothing. Do not breathe dust. Do not take internally.

General Hygiene Advice: Use good industrial hygiene practices and wear recommended

personal protection. Launder contaminated clothing before reuse.

Wash hands before eating, drinking, or smoking.

## 7.2 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES

## SAFETY DATA SHEET

Storage: Keep out of the reach of children. Store locked up. Keep container

tightly closed. Store at room temperature and keep containers

closed when not in use. Keep dry until use.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 CONTROL PARAMETER Exposure Guidelines:

Occupational Exposure Limits					
Chemical Name OSHA-PEL ACGIH-TLV					
Crystalline Silica, Quartz	0.1 mg/m <sup>3</sup>	0.025 mg/m³ (Resp.)			
Portland Cement	5 mg/m³ (Resp.) 15 mg/m³ (Total)	10 mg/m³ (Resp.)			
Calcium Carbonate	5 mg/m³ (Resp.) 15 mg/m³ (Total)	5 mg/m³ (Resp.)			

#### **8.2 EXPOSURE CONTROLS**

**Engineering Controls:** Use ventilation adequate to keep exposures (airborne levels of

dust, fume, vapor, etc.) below recommended exposure limits.

### **8.3 INDIVIDUAL PROTECTION MEASURES**

### 8.3a. Personal Protective Equipment:

- **i. Eye/Face Protection:** Wear approved eye/face protection [properly fitted dust- or splash-proof chemical safety goggles/face (face shield)]
- ii. Skin Protection:
  - 1. Hand Protection: Wear impervious gloves, such as nitrile.
  - 2. Body Protection: Wear suitable protective clothing
- **iii. Respiratory Protection:** A NIOSH approved respirator or filtering face piece, such as N95, is recommended in poorly ventilated areas or when permissible exposure limits may be exceeded. Respirators should be selected by and used under the direction of a trained health and safety professional following requirements found in OSHA's respirator standard (29 CFR 1910.134) and ANSI's standard for respiratory protection (Z88.2).
- iv. General Health and Safety Measures: Handle according to established industrial hygiene and safety practices.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

Appearance (physical state, color, etc.):	Solid Powder(Gray Or White)
Odor:	Characteristic
Odor Threshold:	Not Available
pH:	10.0 – 12.5 when wet
Melting point/Freezing point:	Not Available

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Initial boiling point and boiling range:	Not Available
Flash point:	>212°F(>100°C)
Evaporation rate (Water=1):	Not Available
Flammability:	Not Flammable/Not Combustible
Upper Flammability/Explosive Limit:	Not Available
Lower Flammability/Explosive Limit:	Not Available
Vapor Pressure	Not Available
Vapor Density:	Not Available
Relative Density:	2.0 – 3.0 g/mL
Solubility in Water:	Slightly Soluble
Partition coefficient: n-octanol/water:	Not Available
Auto-ignition temperature:	Not Available
Decomposition Temperature:	Not Available
Viscosity (cps):	Not Available
VOC Content:	0 g/L

### Section 10: STABILITY AND REACTIVITY

### 10.1. REACTIVITY

No dangerous reaction known under conditions of normal use.

## 10.2. CHEMICAL STABILITY

Stable under normal storage conditions. Keep dry in storage.

### 10.3. POSSIBILITY OF HAZARDOUS REACTION

No dangerous reaction known under conditions of normal use.

## 10.4. CONDITIONS TO AVOID

Heat. Incompatible materials.

### 10.5. INCOMPATIBLE MATERIALS

Strong acids. Strong Oxidizers.

## 10.6. HAZARDOUS DECOMPOSITION PRODUCTS

Upon decomposition, this product may yield oxides of carbon and hydrogen sulfide.

## Section 11: TOXICOLOGICAL INFORMATION

#### 11.1. LIKELY ROUTES OF EXPOSURE:

Skin contact, skin absorption, eye contact, inhalation, and ingestion.

## 11.2. SYMPTOMS RELATED TO PHYSICAL/CHEMICAL/TOXICOLOGICAL CHARACTERISTICS:

Eye Contact: Causes serious eye damage. Symptoms may include discomfort or

pain, excess blinking and tear production, with marked redness and

swelling of the conjunctiva.

**Skin Contact:** Causes skin irritation. Handling can cause dry skin, discomfort,

irritation, and dermatitis. May cause sensitization by skin contact.



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**Inhalation:** May cause respiratory tract irritation. Causes damage to organs

through prolonged or repeated exposure. This product contains crystalline silica. Prolonged or repeated inhalation of respirable crystalline silica from this product can cause silicosis, a serious

disabling and fatal lung disease.

**Ingestion:** May be harmful if swallowed. Ingestion may cause discomfort

and/or distress, nausea or vomiting.

Acute Toxicity(ATE <sub>mix</sub> = 6,430 mg/kg)				
Chemical Name LC50 LD50				
Crystalline Silica, Quartz	Not Available	Oral: >10,000 mg/kg, rat		
Portland Cement	Not Available	Oral: >5,000 mg/kg, rat		
Calcium Carbonate	Not Available	Oral: >5,000 mg/kg, rat		

Carcinogenicity			
Chemical Name	Chemical Listed as Carcinogens or Potential Carcinogen (NTP,IARC,OSHA,ACGIH,CP65)		
Crystalline Silica, Quartz	N-A2, I-1, O-1, ACGIH-A2, CP65		
Portland Cement	ACGIH-A4		
Calcium Carbonate	Not Listed		

## 11.3. DELAYED, IMMEDIATE, AND CHRONIC EFFECTS OF SHORT AND LONG-TERM EXPOSURE

SHORT-TERM	
Skin Corrosion/Irritation:	Causes skin irritation
Serious Eye Damage/Irritation:	Causes severe eye damage
Respiratory Sensitization:	Not Classified
Skin Sensitization:	May cause an allergic skin reaction
STOT-Single Exposure:	May cause respiratory irritation
Aspiration Hazard: Not Classified	
LONG-TERM	
Carcinogenicity:	May cause cancer through inhalation of dust
Germ Cell Mutagenicity:	Not Classified
Reproductive Toxicity:	Not Classified
STOT-Repeated Exposure:	Causes damage to lungs through prolonged or
3101-Nepealeu Exposure.	repeated inhalation of dust
Synergistic/Antagonistic Effects:	Not Classified

## **Section 12: ECOLOGICAL INFORMATION**

## 12.1. ECOTOXICITY

May cause long-term adverse effects to the aquatic environment. Keep from entry into sewers and waterways.

Ecotoxicity				
Chemical Name EC50/NOEC-48 Hours LC50/NOEC-96 Hours				
Crystalline Silica, Quartz	Not Available	Not Available		
Portland Cement	Not Available	Not Available		
Calcium Carbonate	Not Available	Not Available		

### 12.2. PERSISTENCE AND DEGRADABILITY

## **SAFETY DATA SHEET**

Not Available

### 12.3. BIOACCUMULATIVE POTENTIAL

Not Available

### 12.4. MOBILITY IN SOIL

Not Available

### 12.5. OTHER ADVERSE EFFECTS

Not Available

## **Section 13: DISPOSAL CONSIDERATIONS**

### 13.1. DISPOSAL METHOD

Dispose of contents/containers in accordance with all local, state, provincial, and federal regulations

## 13.2. OTHER DISPOSAL CONSIDERATIONS

Not Available

## **Section 14: TRANSPORT INFORMATION**

DOT (U.S.)	TDG (CANADA)	IATA	
UN NUMBER:	UN NUMBER:	UN NUMBER:	
Not Regulated	Not Regulated	Not Regulated	
UN PROPER SHIPPING NAME:	UN PROPER SHIPPING NAME:	UN PROPER SHIPPING NAME:	
Not Regulated	Not Regulated	Not Regulated	
TRANSPORT HAZARD CLASS (ES):	TRANSPORT HAZARD CLASS (ES):	TRANSPORT HAZARD CLASS (ES):	
Not Regulated	Not Regulated Not Regulated		
PACKING GROUP (if applicable):	PACKING GROUP (if applicable):	PACKING GROUP (if applicable):	
Not Regulated	Not Regulated	Not Regulated	

SUMMARY: Product is NOT regulated under DOT/TDG and other transportation regulations.

### 14.1. ENVIRONMENTAL HAZARDS

Not Available

# 14.2. TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE Not Available

## 14.3. SPECIAL PRECAUTIONS FOR USER

Do not handle until all safety precautions have been read and understood.



## **SAFETY DATA SHEET**

## **Section 15: REGULATORY INFORMATION**

# 15.1. SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS/LEGISLATIONS SPECIFIC FOR THE CHEMICAL

**Canada:** This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations and the SDS contains all the information required by the Hazardous Products Regulations.

**US:** SDS prepared pursuant to the Hazard Communication Standard (29 CFR 1910.1200) HazCom 2012

### 15.2. US FEDERAL INFORMATION:

	SARA TITLE III			
CHEMICAL NAME	SECTION 302 SECTION 304 (EHS) TPQ EHS RQ (LBS) (LBS)		CERCLA RQ (LBS)	SECTION 313 (TRI)
Crystalline Silica, Quartz	Not Listed	Not Listed	Not Listed	Not Listed
Portland Cement	Not Listed	Not Listed	Not Listed	Not Listed
Calcium Carbonate	Not Listed	Not Listed	Not Listed	Not Listed

## 15.3. US STATE RIGHT TO KNOW LAWS:

California Proposition 65:	warning: This product can expose you to chemicals including Crystalline Silica which is known to the State of California to cause cancer and Hexavalent Chromium Compounds which are known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to <a href="https://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> .
Other U.S. States "Right to Know" Lists:	0111
New Jersey:	Silica, Quartz: CAS#14808-60-7 Portland Cement: CAS#65997-15-1 Calcium Carbonate: CAS#1317-65-3 Fly Ash: CAS#68131-74-8 Slag: CAS#65996-69-2
Pennsylvania:	Silica, Quartz: CAS#14808-60-7 Portland Cement: CAS#65997-15-1 Calcium Carbonate: CAS#1317-65-3 Fly Ash: CAS#68131-74-8 Slag: CAS#65996-69-2
Massachusetts:	Silica, Quartz: CAS#14808-60-7 Portland Cement: CAS#65997-15-1 Calcium Carbonate: CAS#1317-65-3 Fly Ash: CAS#68131-74-8 Slag: CAS#65996-69-2
Minnesota:	Silica, Quartz: CAS#14808-60-7 Portland Cement: CAS#65997-15-1 Calcium Carbonate: CAS#1317-65-3 Fly Ash: CAS#68131-74-8 Slag: CAS#65996-69-2
Florida:	Not Available

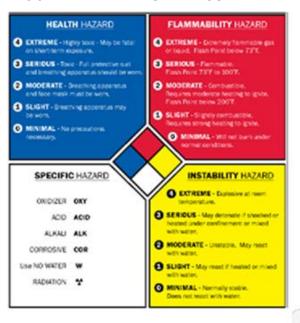
## SAFETY DATA SHEET

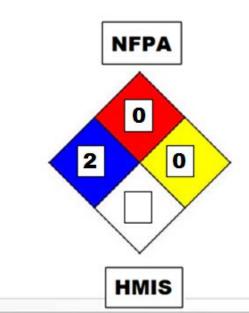
Michigan: Not Available

#### 15.4. GLOBAL INVENTORIES

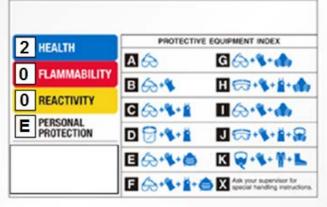
Chemical Name	USA TSCA	Canada DSL/NDSL
Crystalline Silica, Quartz	Yes	DSL
Portland Cement	Yes	DSL
Calcium Carbonate	Yes	NDSL

## 15.5. NFPA AND HMIS RATINGS:





Hazard Index	
4	Severe Hazard
3	Serious Hazard
2	Moderate Hazard
1	Slight Hazard



#### 15.6. SOURCE AGENCY CARCINOGEN CLASSIFICATIONS:

CP65	California Proposition 65
OSHA (O)	Occupational Safety and Health Administration
ACGIH (G)	American Conference of Governmental Industrial Hygienists
	A1 – Confirmed human carcinogen
	<ul> <li>A2 – Suspected human carcinogen</li> </ul>
	A3 – Animal carcinogen



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	A4 – Not classifiable as a human carcinogen	
	<ul> <li>A5 – Not suspected a human carcinogen</li> </ul>	
IARC (I)	International Agency for Research on Cancer	
	<ul> <li>1 – The agent (mixture) is carcinogenic to humans</li> </ul>	
	<ul> <li>2A – The agent (mixture) is probably carcinogenic to humans; there</li> </ul>	
	is limited evidence of carcinogenicity in humans and sufficient evidence of carcinogenicity in experimental animals.	
	<ul> <li>2B – The agent (mixture) is possibly carcinogenic to humans; there is limited evidence of carcinogenicity in humans in the absence of sufficient evidence of carcinogenicity in experimental animals.</li> </ul>	
	<ul> <li>3 – The agent (mixture, exposure circumstance) is not classifiable as to its carcinogenicity to humans.</li> </ul>	
	<ul> <li>4 – The agent (mixture, exposure circumstance) is probably not carcinogenic to humans.</li> </ul>	
NTP (N)	National Toxicology Program	
	<ul> <li>1 – Known to be carcinogens</li> </ul>	
	2 – Reasonably anticipated to be carcinogens	

## **Section 16: OTHER INFORMATION**

**Date of Preparation:** June 14, 2016

Version: 2.0

Revision Date: August 29, 2017

**Disclaimer:** The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to silica contained in our products.

Prepared by: Custom Building Products

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## **End of Safety Data Sheet**