

DURAFlex® FIBER CEMENT BOARD

MATERIAL SAFETY DATA SHEET

SECTION I:

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

01. Product identifier

- **Substance name:** DURAFlex
- **EC No.:** Not Application
- **REACH Registration No.:** Not Application
- **CAS No.:** Not Application

02. Details of the Supplier of the Safety Data Sheet

- **Supplier:** Hiep Phu Corporation.
- **Add:** Lot G.02B, Road No.1, Long Hau Industrial park, Long Hau Village, Can Giuoc Town, Long An Province, Viet Nam.
- **Pos code/province:** 850000, Long An.
- **Telephone:** +84 283 873 4701
- **Website:** www.vinhtuong.com/duraflex

SECTION II:

HAZARD IDENTIFICATION

- **Ways of exposure:** Nose, Skin, Eyes.
- **Local Effects of skin, eyes, Mucous Membrane:** Dust from sawing or sanding may irritate the respiratory system, skin and eyes. Long term exposure may cause serious respiratory system.
- **Effect of overexposure short-term:** Not Applicable.
- **Effect of overexposure long-term:** Not Applicable.

- **GHS label elements:**



SECTION III:

COMPOSITIO/INFORMATION ON INGREDIENTS

Substances Name	CAS Number	EC/List No
Cement	65997-15-1	266-043-4
Calcium Hydroxide	1305-62-0	215-137-3
Cellulose	9004-34-6	232-674-9
Crystalline Silica (Quartz)	14808-60-7	238-878-4

SECTION IV:

FIRST AID MEASURES

01. Description of first aid measures

1. General information

- If medical advice is needed, have product label at hand. You should call the Poisons Information Center if you feel that you have been harmed or irritated by this product.. If shortness of breath or other health concerns develop after exposure to dust from the product, seek medical attention.

2. Following inhalation

- **If inhaled:** Dust may cause irritation. If experiencing irritation, remove to fresh air. Drink water to clear throat. If shortness of breath or wheezing develops, seek medical attention. Call a doctor/physician if you feel unwell.

3. Following skin contact

- **If on skin:** wash with of soap and water, get medical advice if irritation occurs or persists.

4. Following eyes contact

• If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present. Apply continuous irrigation with water for at least 15 minutes holding eyelids apart. If eye irritation occurs get medical advice.

5. Following ingestion

• If ingested: Give a glass of water to drink. Do NOT induce vomiting. If any symptoms occur, contact a doctor.

6. Self-protection of the first aider

02. Most important symptoms and effects, both acute and delayed

03. Indication of any immediate medical attention and special treatment needed

SECTION V: FIREFIGHTING MEASURES

01. Extinguishing media

- **Suitable extinguishing media:** Carbon dioxide (CO₂), Foam, Water spray, Dry extinguishing powder.
- **Unsuitable extinguishing media:** Strong water jet.

02. Special hazards arising from the substance or mixture

- **Hazardous combustion products:** None

03. Advice for fire-fighters

- **Special protective equipment for firefighters:** Wear a self-contained breathing apparatus and chemical protective clothing.

04. Additional information

- Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION VI: ACCIDENTAL RELEASE MEASURES

01. Personal precautions, protective equipment, and emergency procedures

- 1. For non-emergency personnel:** Do not breathe dust. Wear a dust mask if generating above exposure limits. Wear appropriate protective equipment and clothing during clean-up.
- 2. For emergency responders:** No emergency procedures are expected to be necessary if materials used under ordinary conditions as recommended.

02. Environmental precautions: No special precautions necessary.

03. Methods and material for containment and cleaning up.

- Do not dry sweep dust accumulation.
- Pick up large pieces.
- Collect dust or particulates using a vacuum cleaner with a HEPA filter.
- Avoid the generation of dusts during clean-up.

SECTION VII: HANDLING AND STORAGE

01. Precautions for safe handling

Protective measures: During installation and handling of this product: Wherever possible, practices likely to generate dust should be carried out in well-ventilated areas.

Measures to prevent fire: None.

Measures to prevent aerosol and dust generation: Keep exposure to crystalline silica dust to a minimum, and minimize the quantities of dust in work areas. Minimise dust creation by using the recommended tooling and cutting methods.

Measures to protect the environment: If possible to wet the dust, wet and sweep up the solid. Dry sweeping should not be attempted. Vacuuming with an industrial vacuum outfitted with a high-efficiency particulate filter is recommended. Do not wash material down stormwater drains.

Advice on general occupational hygiene: Work area should be cleaned regularly by wet sweeping or vacuuming.

DURAflex® FIBER CEMENT BOARD

MATERIAL SAFETY DATA SHEET

02. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions: None

Requirements for storage rooms and vessels:

- Avoid storage near food and beverages.
- Avoid contact with incompatible substances as listed in Section 10.
- Store DURAflex board in a dry location. Avoid mechanical damage to the product, such as chipping of the edges and corners of the sheets. The product must be laid flat undercover on a smooth surface clear of the ground to avoid exposure to water or moisture.

Board width	Board length	Stack height, Max
1220	2440	4
610	1220	4
605	605	4

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

01. Control parameters.

- American Conference of Governmental Industrial Hygienists» (ACGIH-2017)
- Vietnam Regulatory OEL (Decision No. 3733/2002/QD-BYT)

Substance	TWA OEL (mg/m ³)	References
Dust respirable	3	ACGIH-2017
	2	Vietnam Regulatory OEL (Decision No. 3733/2002/QD-BYT)
Respirable crystalline silica	Quartz	ACGIH-2017
	Cristobalite	
	Tridymite	
	Quartz	Vietnam Regulatory OEL (Decision No. 3733/2002/QD-BYT)
	Cristobalite	
	Tridymite	

02. Exposure controls - Appropriate engineering controls:

- Keep exposures to dust generated from cutting, drilling, routing, sawing or crushing, as low as possible.
- Perform cutting of boards in a well-ventilated area (outside) and use local exhaust ventilation to keep exposures below the recommended exposure limits.
- When using power saws, use blades designed for fiber cement siding.
- Use circular saws with a built-in dust collection container or shroud that functions as a hood, partially encloses the saw blade, that is connected to the local area ventilation system (such as shop vacuum).
- Use a shop vacuum having a filter with 99% or greater efficiency (HEPA recommended), with an air-flow rate as specified by the saw manufacturer.
- Use of high efficiency disposable filter bags is recommended as a pre-filter in the shop vacuum to capture most of the dust. This will prolong the life of the cartridge filter and contain the dust to reduce exposure during disposal.

1. Personal protective equipment:

- **Eye and face protection:** Avoid contact with eyes. Use safety glasses or goggles if irritant levels of dusts are present.
- **Skin protection:** Avoid repeated or prolonged skin contact.
- **Respiratory protection:** If exposure controls listed above are not implemented, use NIOSH N-95 respirators when cutting, drilling, sanding, etc.

2. Thermal hazards: None

3. Environmental exposure controls:

During installation and handling of this product: Wherever possible, practices likely to generate dust should be carried out in well-ventilated areas.

SECTION IX: PHYSICAL AND CHEMICAL PROPERTIES

01. Information on basic physical and chemical properties

- **Physical Form:** Solid sheets
- **Odor:** No characteristic odor
- **Color:** Various
- **pH:** 10-12 when soaked in water
- **Melting Point:** Not applicable
- **Density:** 1.3-1.45 g/cm³
- **Solubility in Water:** Insoluble
- **Evaporation Rate:** Not Applicable.

02. Other information: None

SECTION X: STABILITY AND REACTIVITY

01. Reactivity: Product is nonreactive and stable.

02. Chemical stability: The Chemical on DURAflex board is nonreactive and stable.

03. Possibility of hazardous reactions: Not Application

04. Conditions to avoid: Avoid the creation of dust during processing, handling and installation.

05. Incompatible materials: Hydrofluoric acid will dissolve silica and can generate silicon tetrafluoride, a corrosive gas. Contact with strong oxidizing agents such as fluorine, boron trifluoride, chlorine, trifluoride, manganese trifluoride or oxygen difluoride may cause fires and/or explosions. Furthermore, limestone is incompatible with acids and ammonium salts.

06. Hazardous decomposition products: None known

SECTION XI: TOXICOLOGICAL INFORMATION

Information on toxicological effects.

- **Acute toxicity:** Fibre cement is non-toxic in its intact form. The following applies to respirable dust that may be generated during cutting, rebating, drilling, routing, sawing, crushing or otherwise abrading fiber cement.
- **Skin corrosion / irritation:** This product is not absorbed through the skin. Dust may dry out the skin.
- **Serious eye damage / irritation:** Dust may be irritating to eyes (mechanical irritation).
- **Sensitisation to the respiratory tract:** Dust may cause upper respiratory tract irritation, resulting in coughing and sneezing. Certain susceptible individuals may experience wheezing (spasms of the bronchial airways) upon inhaling dust during cutting, rebating, drilling, routing, sawing, crushing or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust.

SECTION XII: ECOLOGICAL INFORMATION

01. Toxicity: These products are not considered ecotoxic.

02. Persistence and degradability.

DURAFlex® FIBER CEMENT BOARD

MATERIAL SAFETY DATA SHEET

SECTION XIII: DISPOSAL CONSIDERATIONS

01. Waste treatment methods:

Dispose of material in accordance with local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices.

1. Personal protective equipment: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. In Viet Nam can consider product disposal to landfill.

2. Waste treatment-relevant information

3. Sewage disposal-relevant information

4. Other disposal recommendations

SECTION XIV: TRANSPORT INFORMATION

01. UN Number: NA

02. UN proper shipping name: NA

03. Transport hazard class(es): NA

04. Packing group: NA

05. Environmental hazards: NA

06. Special precautions for user: NA

SECTION XV: REGULATORY INFORMATION

01. Safety, health and environmental regulations/legislation specific for the substance or mixture.

EU regulations:

National regulations (UK):

SECTION XVI: OTHER INFORMATION

(i) Indication of changes:

(ii) Abbreviations and acronyms:

ACGIH = American Conference of Governmental Industrial Hygiene

NIOSH = National Institute of Occupational Safety and Health

(iii) Training advice: All end-used, Worker Installation.

(iv) Additional information: None



**Saint-Gobain Vietnam
Vinh Tuong Industrial Corporation**
8th floor, SOFIC Tower, 10 Mai Chi Tho,
Thu Thiem Ward, District 2, HCMC

**Vinh Tuong Industrial Company
Limited Northern Vietnam**
Floor 14, Lilama Tower, To Huu Street,
Trung Van Ward, Tu Liem District, Ha Noi City

This document is officially effective from 15.12.2019 and automatically replaced the previously released documents.
The content is subject to change without notice, for further information, please visit:
www.gyproc.vn - www.vinhtuong.com - www.trannhadep.com

