

## 1. PRODUCT & COMPANY IDENTIFICATION

- **Product Detail:**

**Product name:** BOND MICRO CONCRETE

**Physical form:** Powder

**Odour:** Odourless

**Colour:** Grey

**CAS NO.:**

- **Company Details:**

**Manufacturer:** Highbond Coatings Pvt Ltd

**Address:** Sr. No. 70/2B/1, Flat No 101 & 102,  
Purushottam Villa, Vadgaon Bk,  
Pune – 411041

**Tel:** +91 9370953995

**Email:** info@highbondcoatings.com

## 2. HAZARDS IDENTIFICATION

### Classification of the substance or mixture

#### GHS Classification:

Acute toxicity, Inhalative,

Category 4 (H332)

Skin irritation, Category 2 (H315)

Eye irritation, Category 2 (H319)

Sensitization of the respiratory airways, Category 1 (H334)

Sensitization of the skin, Category 1 (H317)

Carcinogenicity, Category 2 (H351)

Specific target organ toxicity (single exposure),  
Category 3 (H335)

Specific target organ toxicity (repeated exposure),  
Category 2 (H373)

#### 2.2 Label elements

##### GHS-Labeling



**Signal word**

**Danger**

#### Uncured product

##### Hazard statements:

H226 Flammable liquid and vapor

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H401 Toxic to aquatic life  
H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H335 May cause respiratory irritation.  
H351 Suspected of causing cancer.  
H373 May cause damage to organs through prolonged or repeated exposure.

### 3. COMPOSITIONS/ HAZARDOUS COMPONENTS

**Chemical description:** Mixtures

Component	CAS No.	%
Quartz (SiO <sub>2</sub> )	14808-60-7	30-<60
Cement	65997-15-1	30-<60
Silica –Amorphous, Precip.	112926-00-8	1-<10

### 4. FIRST-AID MEASURES

**Over-exposure signs/symptoms**

**Inhalation:** Adverse symptoms may include the following: respiratory tract irritation, coughing.

**Ingestion:** No specific data.

**Skin:** Adverse symptoms may include the following: irritation, redness.

**Eyes:** Adverse symptoms may include the following: pain or irritation, watering, redness.

**Target organs:** Contains material which may cause damage to the following organs: lungs, upper respiratory tract, skin, eyes.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media**

**Suitable:** Use an extinguishing agent suitable for the surrounding fire.

**Not suitable:** None known.

**Special exposure hazards:** No specific fire or explosion hazard.

**Hazardous combustion**

**products:** Decomposition products may include the following materials: carbon dioxide, carbon monoxide, metal oxide/oxides.

**Hazchem code:** Not available.

**Special precautions for**

**fire-fighters:** Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment**

**for fire-fighters:** Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6. FIRE FIGHTING MEASURES

- **Suitable extinguishing media:** Water spray, dry extinguishing media, carbon dioxide or universal foams Contaminated extinguishing water must be disposed of in accordance with local regulations
- **Unsuitable extinguishing media:** High volume water jet
- **Hazardous decomposition:** Carbon dioxide, carbon monoxide, silicone dioxide and nitrogen oxides and formaldehyde.

## 7. ACCIDENTAL RELEASE MEASURES

- **Small spills:** Slippery when spilt. Avoid accidents, clean up immediately. Wipe up with rag or absorbent paper.
- **Large spills:** Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal. Wash area down with excess water. Cured material can only be removed by cutting or abrasion.

## 8. HANDLING AND STORAGE

- **Handling:** Avoid contact with eyes and skin. Ensure good ventilation during processing. Wear safety shoes.
- **Protection against fire/ explosion:** General rules of fire prevention should be observed.
- **Storage:** Keep container tightly closed and dry.

## 9. EXPOSURE CONTROL/PERSONAL PROTECTION

**Eye protection:** Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. If operating conditions cause high dust concentrations to be produced, use dust goggles.

**Skin protection:** Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

## 10. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Base	Portland cement, selected fillers and Aggregates, special additives
Compressive strength	≥ 45 N/mm <sup>2</sup>
Flexural strength	≥ 8 N/mm <sup>2</sup>
Splitting tensile strength	≥ 3.5 N/mm <sup>2</sup>
Shrinkage	No shrinkage after initial setting
Expansion	Up to 4 %

Mixing ratio	Water: Powder = 0.14 to 0.16
Fresh mortar density	(2.15 ± 0.15) kg/L (water: powder = 0.15)
Consumption	~1900 kg of powder per m3 of concrete (water: powder = 0.15)
Ambient air temperature	+5 °C min. / +40 °C max
Substrate temperature	+5 °C min. / +40 °C max
Pot life	~20 minutes

## 11. STABILITY AND REACTIVITY

**Chemical stability:** The product is stable.

**Possibility of hazardous reactions:** Under normal conditions of storage and use, hazardous reactions will not occur.

**Conditions to avoid:** No specific data.

**Incompatible materials:** No specific data.

**Hazardous decomposition products:** Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 12. TOXICOLOGICAL INFORMATION

### Information on the likely routes of exposure

**Inhalation:** No known significant effects or critical hazards.

**Ingestion:** No known significant effects or critical hazards.

**Skin contact:** No known significant effects or critical hazards.

**Eye contact:** No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

**Inhalation:** No specific data.

**Ingestion:** No specific data.

**Skin contact:** No specific data.

**Eye contact:** No specific data.

### Delayed and immediate effects and also chronic effects from Short & Long term exposure

**Acute toxicity:** Not available.

**Irritation/Corrosion:** Not available.

**Sensitisation:** Not available.

### Potential chronic health effects

**General:** Not available.

**Inhalation:** Not available.

**Ingestion:** Not available.

**Skin contact:** Not available.

**Eye contact:** Not available.

**Carcinogenicity:** No known significant effects or critical hazards.

**Mutagenicity:** No known significant effects or critical hazards.

### 13. ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	No known significant effects or critical hazards.
<b>Aquatic and terrestrial toxicity:</b>	Not available.
<b>Persistence/degradability:</b>	Not available.
<b>Bio-accumulative potential:</b>	Not available.
<b>Mobility in soil</b>	
<b>Soil/water partition</b>	
<b>Coefficient (Koc):</b>	Not available.
<b>Other adverse effects:</b>	No known significant effects or critical hazards.

### 14. DISPOSAL CONSIDERATIONS

**Disposal methods:** The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### 15. REGULATORY INFORMATION

**New Zealand Inventory of Chemicals (NZIoC):** All Components are listed or exempted.  
**HSNO Approval Number:**  
**HSNO Group Standard:**  
**HSNO Classification:** 8.3A, 6.1E, 6.3A

**Australia Inventory (AICS):** All components are listed or exempted.

#### **Safety, health and Environmental regulations**

**specific for the product:** No known specific national and/or regional regulations applicable to this product (including its ingredients).

### 16. OTHER INFORMATION

These data are offered in good faith as typical values and not as a product specification. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use and determine whether they are appropriate.

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