

SAFETY DATA SHEET

SB51 Floor Screed

Dry Powder Cement-Based Floor Screed

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1. Identification of the Product and Company

Product Name	SB 51 Floor Screed
Other Names	Cement-based Floor Screed; dry mix Floor Screed; polymer-Floor Screed
Recommended Use	For use as a normal screed on new concrete substrates and to repair old worn-out substrates in housing area or industrial floors. It can be used on internal and external areas.
Restrictions on Use	Not for ingestion. Not for unsupported structural applications. Use only according to manufacturer instructions.

2. Hazard Identification

This classification is a typical draft and must be confirmed against the actual formulation, supplier ingredient SDS, test data and applicable GHS cut-off limits.

GHS Classification, typical:

- Serious eye damage: Category 1
- Skin irritation: Category 2; skin corrosion may apply depending on alkalinity and formulation
- Skin sensitisation: Category 1
- Specific target organ toxicity - single exposure: Category 3, respiratory tract irritation
- Specific target organ toxicity - repeated exposure: may apply if respirable crystalline silica content and exposure are significant

Hazard Statements:

- Causes serious eye damage.
- Causes skin irritation.
- May cause an allergic skin reaction.
- May cause respiratory irritation.
- May cause burns in the presence of moisture due to alkalinity.
- Prolonged or repeated inhalation of respirable dust may cause respiratory effects, depending on crystalline silica content.

Precautionary Statements:

- Avoid breathing dust.
- Wear protective gloves, protective clothing, eye protection and suitable dust mask or respirator.
- Wash hands and exposed skin thoroughly after handling.
- Use only in well-ventilated areas.
- Do not eat, drink or smoke when using this product.
- Contaminated work clothing should not be allowed out of the workplace.
- Keep out of reach of children.

3. Composition / Information on Ingredients

Typical composition of cementitious Floor Screed. Exact composition may be proprietary and shall be confirmed by the manufacturer.

Ingredient	Typical Content	CAS No.	Hazard Notes
Portland cement	25-50%	65997-15-1	Alkaline; serious eye damage, skin irritation, possible sensitisation
Graded silica sand / quartz sand	40-75%	14808-60-7	Dust inhalation hazard; respirable crystalline silica concern
Calcium carbonate / limestone filler	0-30%	1317-65-3	Dust irritant
Redispersible polymer powder	0.5-3%	Proprietary	Dust irritant
Cellulose ether / water-retention agent	0.1-0.5%	Proprietary	Dust irritant
Additives / setting modifiers	0.1-3%	Proprietary	Depends on actual formulation

4. First Aid Measures

Inhalation

Move affected person to fresh air. Keep at rest in a position comfortable for breathing. If coughing, irritation or breathing difficulty persists, seek medical attention.

Skin Contact

Remove contaminated clothing and shoes. Wash affected skin with plenty of water and soap. Do not allow wet product to remain in contact with skin. Seek medical advice if irritation, burns, rash or allergic reaction occurs.

Eye Contact

Immediately rinse cautiously with clean running water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.

Ingestion

Rinse mouth with water. Do not induce vomiting. Give water to drink if the person is conscious. Seek medical attention if discomfort occurs.

Most Important Symptoms

Eye pain, watering, redness, skin irritation, dryness, cracking, alkaline burns, allergic dermatitis, coughing and respiratory irritation.

5. Fire-Fighting Measures

Suitable Extinguishing Media

Use extinguishing media suitable for surrounding fire, such as water spray, foam, dry chemical powder or carbon dioxide.

Specific Hazards

Product is not normally flammable. Packaging materials may burn and produce smoke, carbon monoxide or carbon dioxide.

Protective Equipment

Wear full protective clothing and self-contained breathing apparatus where necessary.

6. Accidental Release Measures

Personal Precautions

Avoid dust formation. Avoid breathing dust and contact with skin and eyes. Wear gloves, safety goggles, protective clothing and suitable dust mask or respirator.

Environmental Precautions

Prevent product from entering drains, sewers or watercourses. Avoid uncontrolled release of powder or wet slurry into the environment.

Clean-Up Method

Collect dry material by vacuum or gentle sweeping. Avoid dry sweeping that generates excessive dust. Place collected material in suitable labelled containers. Wet slurry should be allowed to harden where practical before disposal.

7. Handling and Storage

Handling

Use in well-ventilated areas. Avoid generating airborne dust. Avoid contact with eyes, skin and clothing. Do not kneel in wet mortar or allow wet product to remain on skin. Use appropriate PPE during mixing and application.

Storage

Store in a cool, dry, well-ventilated place. Keep bags tightly closed and protected from moisture. Store above ground level on pallets. Keep away from acids, ammonium salts and food materials. Use older stock first.

8. Exposure Controls / Personal Protection

Engineering Controls

Provide adequate ventilation and local dust extraction where dust is generated. Use enclosed handling or dust collection for bulk transfer. Provide eyewash facilities near mixing and handling areas.

Respiratory Protection

Use suitable dust mask or respirator, such as N95, P2 or equivalent, when dust exposure may occur.

Eye Protection

Wear chemical safety goggles or face shield during mixing and handling.

Hand Protection

Wear alkali-resistant gloves, such as nitrile, PVC or rubber gloves.

Skin and Body Protection

Wear long sleeves, long trousers and safety boots. Avoid direct contact with wet mortar.

Hygiene Measures

Wash hands before eating, drinking or smoking. Remove contaminated clothing and wash before reuse.

9. Physical and Chemical Properties

Property	Typical Value
Appearance	Grey or white powder
Odour	Odourless or slight cementitious odour
pH	Approx. 11-13 when mixed with water
Flammability	Not flammable
Solubility in water	Partially soluble / forms alkaline slurry
Bulk density	Approx. 1.2-1.8 g/cm ³ , depending on formulation
Explosive properties	Not explosive
Oxidising properties	Not oxidising
Decomposition temperature	Not applicable under normal use
VOC content	Typically low or negligible

10. Stability and Reactivity

Reactivity

Reacts with water to form an alkaline cementitious paste.

Chemical Stability

Stable under normal dry storage conditions.

Conditions to Avoid

Moisture, humidity, water ingress, excessive dust generation and incompatible materials.

Incompatible Materials

Strong acids, ammonium salts and reactive metals such as aluminium powder.

Hazardous Decomposition Products

No hazardous decomposition expected under normal use. Packaging combustion may generate carbon monoxide and carbon dioxide.

11. Toxicological Information

Likely Routes of Exposure

Inhalation, skin contact, eye contact and accidental ingestion.

Acute Effects

Dust may irritate the nose, throat and respiratory tract. Dry powder may irritate skin. Wet product may cause irritation, burns or dermatitis due to alkalinity. Eye contact may cause serious eye damage. Ingestion may irritate or burn the mouth, throat and stomach.

Chronic Effects

Repeated or prolonged inhalation of respirable dust containing crystalline silica may cause lung disease. Sensitisation or allergic dermatitis may occur in susceptible persons due to cement constituents such as trace chromium compounds.

Carcinogenicity

Crystalline silica, if present in respirable form, is associated with serious long-term health risks. Classification depends on actual respirable crystalline silica content and exposure conditions.

12. Ecological Information

Ecotoxicity

Product may increase pH of water and be harmful to aquatic organisms if released in large quantities.

Persistence and Degradability

Inorganic mineral components are not readily biodegradable.

Bioaccumulative Potential

Not expected to bioaccumulate.

Mobility in Soil

Powder may be mobile as dust. Wet product hardens after hydration.

Environmental Precautions

Do not discharge powder, slurry or wash water into drains, sewers or natural watercourses.

13. Disposal Considerations

Recommended Disposal

Use product fully where possible. Allow wet waste to harden before disposal. Dispose of hardened material as construction waste, subject to local requirements. Empty bags should be disposed of properly and should not be reused for food or personal use. Prevent disposal of wet cementitious slurry into drains.

14. Transport Information

UN Number

Not regulated as dangerous goods under normal transport conditions.

Proper Shipping Name

Not applicable.

Transport Hazard Class

Not applicable.

Packing Group

Not applicable.

Marine Pollutant

No, unless released in large quantities.

Special Precautions

Keep dry. Protect bags from moisture and damage during transport.

15. Regulatory Information

Regulatory Note

This SDS should be prepared and maintained according to applicable workplace safety, chemical hazard communication, GHS classification, labelling and environmental requirements in the country of supply and use. For Singapore, align with GHS and SS 586 Part 3 requirements where applicable, and ensure supplier/manufacturer SDS duties are met for hazardous products classified under GHS.

16. Other Information

Recommended Training

Personnel handling this product should be trained in safe handling of cementitious powder products, dust control, use of PPE, first aid response for eye and skin exposure, and proper disposal of cementitious waste and wash water.

Disclaimer

This SDS is a general draft for cementitious Floor Screed and is based on typical cement-based dry mix mortar composition. The final SDS must be verified against the actual formulation, ingredient SDS, test data, GHS classification, local regulations and intended country of supply.

