

## MATERIAL SAFETY DATA SHEET

### 1. Identification of the substance/preparation and company

**Product Name:** Flowcem Filler C (formerly known as Isosmooth DPM)

**Application:** Filler C component (sand/cement mixture) of a 3 pack surface damp proof membrane.  
Mixed product is applied using a trowel.

**Manufacturer:** Flowcrete SA (Pty) Ltd  
176 Voortrekker Street  
Jacobs  
4052

**Telephone Number:** (031) 461 3411

### 2. Composition/information on constituents

Chemical Name	EINECS No.	CAS No.	% by weight	Symbols and Risk Phrases
Cement	270-659-9	68475-76-3	30 - 40	Xi; R41.
Silica Sand, Silicon dioxide	238-878-4	14808-60-7	> 50	None.
Respirable crystalline silica	-	14808-60-7	Trace	Xn; R48:R20

See section 16 Additional information, for full text regarding symbols and Risk phrases.

### 3. Hazards Identification

**Risk of serious damage to eyes.** The lime, calcium silicates and alkalis within the cement are partially soluble and when mixed with water will give rise to a potentially hazardous alkaline solution. The eyes are particularly vulnerable and damage will increase with contact time. Contact with wet cement may cause irritation, dermatitis or burns.  
Contact between cement powder and body fluids (e.g. sweat and eye fluid) may also cause skin and respiratory irritation, dermatitis or burns.

### 4. First Aid measures

**General Information** : In case of accident or you feel unwell, seek medical advice and take the relevant safety data sheets. Never give anything by mouth to an unconscious person.

**Inhalation** : If irritation occurs, move to fresh air. If nose or airways become inflamed seek medical advice.

**Skin contact** : Wash with soap and plenty of water before continuing. If irritation, pain or other skin trouble occurs, seek medical advice.  
Contaminated clothing should be removed and washed thoroughly before re-use.

**Eye Contact** : Hold eyelids apart and immediately flush with plenty of water for at least 15 minutes. Seek medical advice immediately.

**Ingestion** : Wash out mouth with water and give patient plenty of water to drink.

### 5. Fire-fighting measures

This material is non-combustible and will not facilitate combustion with other materials.

### 6. Accidental release measures

- Personal precautions** : Use personal protective equipment as detailed in Section 8.  
Ensure adequate ventilation.
- Environmental precautions** : Avoid the formation of dust clouds.
- Methods for cleaning up** : Sweep or preferably vacuum up and collect in suitable containers for disposal in accordance with Section 13. Avoid creating a dust cloud, dampen with water if possible. Addition of water may result in the product hardening in situ if not removed quickly.

## 7. Handling and storage

- Handling** : Provide sufficient air exchange and/or exhaust in work rooms. Avoid formation of dust cloud.  
Ensure adequate ventilation. Use personal protective equipment as detailed in Section 8.  
Handle and open container with care.
- Storage** : Store in a dry, cool, well-ventilated place.

## 8. Exposure controls/personal protection

**Maximum exposure limit** for Silica, respirable crystalline dust : 0.1 mg/m<sup>3</sup> 8hr TWA (8 hour time weighted average) (CHAN)

**Occupational Exposure Standard** for dust, Total inhalable dust : 10mg/m<sup>3</sup> 8hr TWA  
Respirable dust : 4 mg/m<sup>3</sup> 8hr TWA

**Engineering measures to reduce exposure** : Local exhaust ventilation is recommended where dust is likely to be generated from the handling of dry material.

### Personal protective equipment

- Respiratory protection** : Dust respirator if the conditions are dusty.
- Eye protection** : Goggles or face shield.
- Hand protection** : Impervious gloves.
- Skin and body protection** : Protective suit.
- Protective measures** : Use of the basic principles of Industrial Hygiene will enable this material to be used safely.

## 9. Physical and chemical properties

Appearance	: Granules/powder mix	pH	: ~11 - 14
Odour	: None	Water solubility	: slight
Boiling Point	: Not applicable	Water miscibility	: Not applicable
Flashpoint	: Not applicable	Vapour pressure	: Not applicable
Explosion limits	: No data		

## 10. Stability and reactivity

Material is inert and stable.

- Conditions to avoid** : Damp storage conditions.
- Materials to avoid** : Not applicable
- Hazardous decomposition products** : None.

## 11. Toxicological information

- Corrosivity/irritation** : **Skin** – Cement powder or any cement/water mixture may cause irritant contact dermatitis, allergic dermatitis and/or burns.  
**Eye** – Cement is a severe eye irritant. Mild exposure can cause soreness. Gross exposures or untreated mild exposures can lead to chemical burning

and ulceration of the eye.

**Respiratory tract** – Cement powder may cause inflammation of the mucous membranes.

**Ingestion** – The swallowing of small amounts of cement or any cement/water mix is unlikely to cause significant reaction. Larger doses may result in irritation of the gastro intestinal tract.

**Repeated-dose toxicity** : High repeated exposures to cement in excess of the OES have been linked with thinitis and coughing.

## 12. Ecological information

**Ecotoxicity** : LC<sub>50</sub> aquatic toxicity not determined. The addition of cement to water will raise the pH and may therefore be toxic to aquatic life in some circumstances.

**Mobility** : The product is not volatile and insoluble in water, will accumulate in the ground.

**Persistence and degradability** : Non biodegradable. The hydrated lime in the cement will react with atmospheric and dissolved carbon dioxide to form calcium carbonate (e.g. chalk).

**Bioaccumulative potential** : Not applicable.

**Additional ecological information** : High concentrations of cement in water (>100 mg/l) may have a sterilising effect in sewage works.

## 13. Disposal considerations

**Unused Product/waste from cleaning etc.** : Dispose in accordance with local and national regulations. EC Waste Catalogue code: 08 01 99

**Contaminated packaging** : Dispose of as non-hazardous packaging waste, use EWC Code 150101 for paper, 150102 for plastic.

## 14. Transport information

Not classified as hazardous for transport.

## 15. Regulatory information

Classification according to EEC directive:



Symbols:

Irritant

R-phrases

**R41** : Risk of serious damage to eyes.

S-phrases

**S22** : Do not breathe dust.

**S26** : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**S28** : After contact with skin, wash immediately with plenty of water and soap.

**S36/37/39** : Wear suitable protective clothing, gloves and eye/face protection.

**Special provisions statement** : None.

**Hazardous component(s) which must be listed on the label** : Cement.

**EC Directives:** Dangerous Substances Directive, 67/548/EEC & adaptations.  
Dangerous Preparations Directive, 1999/45/EC.

**Statutory** Safety Data Sheets Directive, 91/155/EEC and adaptations.  
Chemicals (Hazard Information & Packaging for Supply) Regs 2002.

