KWIKBUILD CEMENT

http://www.kwikbuildcement.co.za

MATERIAL SAFETY DATA SHEET COMPOSITE CEMENT

1. IDENTIFICATION OF MATERIAL

Identity: Composite Cement type CEM V/B (S-V) 32.5N **Alternative name:** Blended Cement, General Purpose Cement	**Appearance:** Fine , grey powder
Manufacturer: Kwikbuild Cement No. 2 Trans Road Silverton, Pretoria, South Africa, 0127	**Contact Details:** Tel: +27 12 804 8337 Fax: +27 12 804 1996 Email: info@kwikbuildcement.co.za

2. COMPOSISTION

Chemical Composition:

- SiO_2 between 34.00% and 37.00%
- AL_2O_3 between 15.00% and 17.00%
- CaO between 37.00% and 39.00%
- TiO_2 between 0.75% and 1.5%
- Fe_2O_3 between 2.00% and 3.00%
- MgO between 3.00% and 4.00%
- K_2O between 1.00% and 2.00%
- Mn_2O_3 between 0.50% and 0.80%
- P_2O_5 between 0.20% and 0.40%
- SO_3 between 1.00% and 1.20%
- Na_2O between 0.10 and 0.25%

3. HAZARDOUS IDENTITY DATA

Appearance: Composite Cement is a fine grey odourless powder. In the presence of air movement it will cause dust.	**Health effects:** Composite Cement mixed with water produces a strong alkaline solution. This can cause irritation and burns to the skin and eyes.
Skin contact: Composite Cement may cause dry skin and irritation.	**Eye contact:** Airborne dust may cause irritation or inflammation.
Inhalation: Dust may cause nose, throat or lung irritation.	**Ingestion:** If ingested, drink plenty of water and consult a doctor immediately. DO NOT INDUCE VOMITING.

4. FIRST AID MEASURES

Skin contact: Composite Cement may cause dry skin and irritation. Wash affected area with soap and water.	**Eye contact:** Wash with large amounts of water and seek medical attention if irritation remains.
Inhalation: Move affected person to fresh air. If nose or airways become inflamed, seek medical attention.	**Ingestion:** If ingested, drink plenty of water and consult a doctor immediately. DO NOT INDUCE VOMITING.

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5. FIRE & EXPLOSION HAZARD DATA

Flash Point: Non Flammable / Non Explosive	**Unusual Fire & Explosion Hazards:** None
Flammable (Explosive Limits % Vol.): Not Applicable	**Special Fire Fighting Procedures:** None

6. ACCIDENTAL RELEASE MEASURES

Methods of cleaning: Recover spillage and place into a container or bag. Spray Composite Cement with water for easy handling and to minimize airborne dust. Wear appropriate protective clothing as described in Section 8.	**Environmental precautions:** Prevent Composite Cement from contaminating surface water. Do not allow the Cement to enter the water course or dams.

7. HANDLING AND STORAGE

Handling: Avoid actions that can cause the Composite Cement to become airborne.	**Storage:** Storage should be in bags, under cover to prevent any moisture coming into contact with the Composite Cement. Composite Cement bags shall be stacked on wooden planks in such a way as to keep approximately 150 mm to 200 mm clear above the floor with an impermeable plastic sheet underneath so as to avoid contact with concrete floors for long periods of time.

Engulfment hazard:
To prevent burial or suffocation, do not enter a confined space such as a silo, bin, bulk truck or vessel that stores Composite Cement. Composite Cement can build up or adhere to the wall of a confined space.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Skin protection: Wear gloves or a barrier cream for prolonged exposure to Composite Cement.	**Eye contact:** Suitable goggles to be worn if there is a risk of the powder suddenly becoming airborne during handling.
Respiratory protection: Wear suitable dust masks for prolonged exposure to airborne Composite Cement.	**Ingestion:** If ingested, drink plenty of water and consult a doctor immediately. DO NOT INDUCE VOMITING.

Protection:
The following is recommended to be used when handling Composite Cement.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance & Odour: Fine,grey powder, Odourless	**Density:** 2.2 to 3.2 kg/litre		**Solubility in water:** Negligible < 1%
Boiling Point: Not Applicable	**Freezing Point:** Not Applicable	**Specific Gravity:** 2.1 – 2.3	**Odour Threshold:** Not Applicable
Melting Point: 1500 Deg C	**Vapour Pressure: (mm Mercury):** Not Applicable		**pH:** 7 to 13

10. STABILITY AND REACTIVITY

Stability: Stable under normal room temperature and conditions	**Reactivity:** Composite Cement will harden with short term exposure to moisture. (water)

11. TOXICOLOGICAL INFORMATION

Composite Cement dust irritates the eyes and causes dermatitis. Prolonged exposure to undefined mixtures of cement and other dusts have led to reports of increased incidence of bronchitis and chest x-ray changes. Exposure to cement can cause chronic conjunctivitis, blepharitis and skin ulcers of the noses. Repeated and prolonged contact can result in primary dermatitis of hands, forearms and feet with potential complications.

12. ECOLOGICAL INFORMATION

The addition of Cement to water will give an alkaline solution. Do not allow into the watercourse or drains.

13. DISPOSAL CONSIDERATIONS

Disposal to suitable landfill sites which would normally accept ‘building rubble’.

14. TRANSPORT INFORMATION

Cement is not considered hazardous for the purpose of transportation. 50kg paper or polypropylene sacks are used for packaging and transportation.

15. OTHER INFORMATION

The information is given in good faith and is believed to be accurate and complete. Kwikbuild Cement gives no guarantees and assumes no liability in connection with the use of the information.

16. APPLICATIONS

Kwikbuild Cement 32.5N is capable of producing cost-effective concrete, mortars and plasters for a variety of building applications such as:

- High Strength Concrete i.e. concrete pillars, slab and water retaining structures
- Medium strength concrete i.e. floors, driveways and mass concrete
- Low strength concrete i.e. foundations and paths
- Masonry work i.e. mortar and plaster due to the improved workability and early strength

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