

MATERIAL SAFETY DATA SHEET**1. IDENTIFICATION OF PRODUCT AND COMPANY**

Product: Unicell 40
Company: Ronacrete (Far East) Ltd., 16/F, No. 3 Lockhart Rd,
Wanchai, Hong Kong SAR
Tel/Fax: +852 2865 5872 / +852 2865 5568

2. COMPOSITION/INFORMATION ON INGREDIENTS

Composition: single component, polymer modified, fibre reinforced, Portland cement based repair mortar.

Hazardous Ingredients	Symbol	Risk	Phrases	CAS No %
Portland cement	Xi	R36/37/38	65997-15-1	>25 <55

3. HAZARDS IDENTIFICATION

Irritant to eyes, respiratory system and skin.

4. FIRST AID MEASURES

Eyes: Irrigate immediately with copious quantities of water for several minutes. Obtain medical attention immediately.

Skin: Remove contaminated clothing. After contact with skin wash immediately with plenty of clean water. Seek medical attention if irritation persists.

Inhalation: Remove from exposure, rest and keep warm and obtain medical attention immediately.

Ingestion: Wash out mouth with water. Do NOT induce vomiting. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Will not support combustion. Compatible with all standard fire fighting equipment.

Special Exposure Hazards: None.

Special Protective Equipment: None.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear suitable protective clothing, gloves and eye/face protection.

Environmental Precautions: Prevent entry into drains, sewers and water courses.

Cleaning up Methods: Carefully sweep or vacuum up the product and transfer to marked containers to await disposal. Wash away any residue with plenty of water.

7. HANDLING AND STORAGE

Handling: Avoid creating dust. Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid skin and eye contact.

Storage: Store in dry frost free conditions below 35 C.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupation Exposure Limits:-

Substance	8 hour TWA	Source/Other Information
silica, amprohours: total inhalable dust respirable dust	6 mg/m ⁻³ 3 mg/m ⁻³	EH40
Portland cement: total inhalable dust respirable dust	10 mg/m ⁻³ 5 mg/m ⁻³	EH40

Further information is given in guidance note EH44 - dust in the workplace.

RESPIRATORY: Normal conditions of ventilation are usually adequate. Wear a fine particle mask or use local ventilation as necessary when mixing in confined areas with inadequate ventilation or whenever there is a risk of the exposure limited being exceeded. This applies not only to the user, but all people who cannot be vacated from the work area.

HAND: Use heavy duty gloves. Barrier creams may help to protect exposed areas but are not suitable for full physical protection. They should not be applied once exposure has occurred.

EYE: Eye protection designed to protect against liquid splashes, conforming to BS2092 Chemical Grade, should be worn when handling to dry powder or when there is risk of mixed material entering the eye. Eye protection is essential when handling alkaline material.

SKIN: Wear suitable overalls. Remove grossly contaminated clothing and wash skin with plenty of clean water. Practice good personal hygiene.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Concrete grey granular powder
Odour:	Odourless
pH:	>12 when mixed with water
Bulk Density:	850 - 1200kg/m ³
Solubility in Water:	Insoluble

10. STABILITY AND REACTIVITY

Stability:	Stable.
Conditions to Avoid:	Exposures to air. Contamination with water.
Materials to Avoid:	Strong acids.

Hazardous Decomposition Product: None.

11. TOXICOLOGICAL INFORMATION

Health Effects

On Eyes: Risk of serious damage to eyes.

On Skin: Irritation. See "chronic" effects.

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- By Inhalation: Dust nuisance. Prolonged exposure to dust may cause irritation to the respiratory system.
- By Ingestion: May cause irritation of mouth, throat and digestive tract.
- Chronic: Cement, cementitious grouts and mortars are known to cause both irritant and allergic contact dermatitis. Prolonged skin contact can result in chemical burns.

12. ECOLOGICAL INFORMATION

Product should not be disposed off into rivers or other water courses without pre-treatment. Measures should be taken to prevent the release of dust to the environment. Appropriate additions of low concentrations to biological water treatment plants are not expected to cause any disturbances. Attention must be paid to local water treatment regulations.

13. DISPOSAL CONSIDERATIONS

The product is not classified as hazardous waste and is suitable for controlled waste site disposal. Do not allow into water courses or dispose of where ground or surface waters may be affected.

DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL AND NATIONAL LEGISLATION

14. Transport Information

The product is not classified as dangerous for Transport

15. REGULATORY INFORMATION

Hazard Label Data:-

- Names Ingredients: cement powders
- Symbol: Xi
- Risk Phrases: Irritating to eyes, respiratory system and skin.
- Safety Phrases: Do not breath dust. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. Occupational exposure limits and standards are advised in Publication EH40 from the HSE for the purpose of regulations 7(1) of the COSHH regulations.

16. OTHER INFORMATION

- Training Advice: The user should be trained to handle the products to avoid the creation of dust and be fully aware of the reactions and hazards. The normal precautions relating to handling chemicals must be observed.
- Recommended Uses: The repair of defective reinforced concrete.
- Data Sources: EH40/94 Occupational Exposure Limits 1991.
HSE Guidance Note EH44; Dust in the Workplace: General Principles of Protection COSHH Regulations 1988.