

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product: RONABOND COVER PLUS - LIQUID
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

Carboxylated styrene butadiene polymer	47%
Water	Balance

3. HAZARDS IDENTIFICATION

On available data the Product has no hazard classification according to EC directive 88/379/EEC (CHIP Regulations in the UK)

4. FIRST AID MEASURES

Eye Contact: May cause slight irritation and soreness
Wash out with plenty of clean water
Seek medical attention if symptoms persist

Skin Contact: Remove soiled clothing
Wash off with soap and water

Swallowing: May cause nausea
Give plenty of water to drink
Seek medical attention

5. FIRE FIGHTING MEASURES

Product is water based and low fire hazard. The dried polymer is combustible. All Extinguishing media are suitable. Fire fighters should wear breathing apparatus to avoid smoke inhalation.

6. ACCIDENTAL RELEASE MEASURES

Large spillages should be contained and pumped into a vessel.
Small spillages should be absorbed on sand etc for disposal (Refer to Section 13).
Prevent product entering drains or watercourses (Refer to Section 12).

7. HANDLING AND STORAGE

Handling: No special precautions needed. Ensure adequate ventilation.
Storage: Store between +5 and +25°C protected from frost and direct sunlight.

Bulk tanks should be cleaned and sterilised at least annually to prevent accumulation of bacteria.
Observe safe tank entry procedures.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Good general ventilation is normally adequate. Where product is dried or sprayed local extraction is recommended.

Respiratory protection: If sprayed product use suitable respirator.
Hand protection: For frequent contact wear impermeable gloves.
Eye protection: Goggles, face visor or safety glasses recommended.
Skin protection: If severe splashing occurs wear waterproof overalls.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	milky white liquid
Odour:	faint aromatic
pH:	9.0 - 10.0
Boiling point:	approx. 100°C (water)
Flash point:	not applicable
Flammability:	not applicable
Autoignition:	not applicable
Explosive/oxidising:	not applicable
Vapour pressure:	as water
Relative density:	approx 1.0
Solubility in water:	miscible in all proportions
Partition coeff.	
n-octanol/water:	not applicable
VOC:	< 250 grams per litre

10. STABILITY AND REACTIVITY

Product is stable under recommended storage conditions.

11. TOXICOLOGICAL INFORMATION

Available data indicate low toxicity.

Long term experience of this product type indicates no danger to health when handling under industrial conditions.

12. ECOLOGICAL INFORMATION

The product is miscible with water and could be transported considerable distances if allowed to enter waterways. Even low concentrations in water give a pronounced white appearance.

The product will degrade only very slowly in the environment.

There is no evidence of any tendency for bioaccumulation.

In low concentrations (<100mg/litre) RONABOND COVERPLUS – LIQUID exhibits low toxicity to fish, but in higher concentrations may be harmful to fish and aquatic life.

Low concentrations of RONABOND COVERPLUS – LIQUID in water for sewage treatment do not affect the biomass; the polymer particles are absorbed onto the sludge and eliminated from the waste stream.

The BOD of dilute RONABOND COVERPLUS – LIQUID is relatively low (BOD₅ approx. 100ppm at 0.1% concentration).

13. DISPOSAL CONSIDERATIONS

Waste RONABOND COVERPLUS – LIQUID must not be discharged directly into drains or waterways without treatment. The polymer content may be separated by coagulation and disposed of to landfill or by incineration. Waste water containing RONABOND COVERPLUS – LIQUID may be treated by coagulation setting, flotation or ultrafiltration. Disposal should always comply with local, national or EC regulations.

14. TRANSPORT INFORMATION

The product is not classified as dangerous for Transport.

15. REGULATORY INFORMATION

The product has no hazard classification according to EC Directive 88/379/EEC.

Type of Regulated Paint under the Air Pollution Control (Volatile Organic Compounds) Regulation of Hong Kong: Waterproofing sealers

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16. OTHER INFORMATION

This Material Safety Data Sheet conforms to EC Directive 91/155/EEC
The information given here is to the best of our knowledge true and accurate and is provided solely for making safety assessments. It is not a sales specification or an indication of suitability for a particular use.

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1. IDENTIFICATION OF PRODUCT AND COMPANY

Product: RONABOND COVER PLUS - POWDER
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

Composition: Portland cement base with sand, fine filler and additive.

Hazardous Ingredients	Symbol	Risk Phrases	CAS No	%
Portland cement	Xi	R36/37/38	65997-15-1	>30 <60

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 Protection 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
Powdered filler:		EH40
total inhalable dust	10 mg/m ⁻³	
respirable dust	5 mg/m ⁻³	
Portland cement:		EH40
total inhalable dust	10 mg/m ⁻³	
respirable dust	5 mg/m ⁻³	

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 splashed, 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:	Light grey powder
Odour:	Odourless
Bulk Density:	850 - 1200kg/m ³
Solubility in Water:	Insoluble
VOC:	< 250 grams per litre

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.
By Inhalation:	Dust nuisance. Prolonged exposure to dust may cause irritation to the respiratory system.

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By Ingestion: May cause irritation to 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 plant 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.

Type of Regulated Paint under the Air Pollution Control (Volatile Organic Compounds) Regulation of Hong Kong: Waterproofing sealers

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: As a damp proof membrane when used with Monoprufe Liquid.

Data Sources: EH40/94 Occupational Exposure Limits 1991.
HSE Guidance Note EH44; Dust in the Workplace: General Principles of Protection COSHH Regulations 1988.