

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product: Ronascreed EWB Coating
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

A 2 pack system comprising resin and hardener which are supplied in separate containers to be mixed together at the site of application.

	% by weight	CAS No	Hazard Symbols	R-phrases
Composition of resin:				
Epoxy resin	10-20%	25068-38-6	Xi	R36/38,43
Non-toxic pigments and non-toxic additives	50-70%			
Water	15-35%			
Composition of hardener:				
Isophorane Diamine	5-30%	2855-13-2	C	R21/22,34,43

3. HAZARDS IDENTIFICATION

Resin: Irritating to eyes and skin.
May cause sensitisation by skin contact.

Hardener: Harmful in contact with skin and if swallowed.
May cause sensitisation by skin contact.

4. FIRST AID MEASURES (Applicable to both resin and hardener)

Eye Contact: Rinse immediately with water, continuing for 15 minutes.
Seek medical attention.

Skin Contact: Rinse immediately with plenty of soap and water.
Remove contaminated clothing.
In case of persistent irritation, or if a rash develops, seek medical attention.

Inhalation: Remove the affected person to fresh air and allow to rest.
In case of breathing difficulty, or distress, seek medical attention.

Ingestion: Immediately rinse mouth with water and seek medical attention. If this is not immediately available, drink 1 or 2 pints of water.

5. FIRE FIGHTING MEASURES

Special hazards: If involved in a fire, may generate noxious or toxic vapours.

Protective equipment: Fire fighters wear self contained breathing apparatus.

Extinguishing agents: Alcohol resistant, Foam, dry powder, CO₂ or water spray.

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6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Wear full protective clothing when dealing with a spillage.
Environmental precautions:	Prevent from entering sewer system, surface water, or soil.
Methods for cleaning up:	Absorb with earth, sand or other absorbent materials. Wash the area clean with water and detergent.

7. HANDLING AND STORAGE

Handling:	Wear goggles or a face shield, impervious gloves and protective clothing.
Storage:	Store in a cool, well ventilated place away from foodstuffs. Keep containers sealed until mixing.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

During application:	Wear goggles or a face shield, impervious gloves and protective clothing. Apply in a well ventilated area.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Resin:	Physical state:	pigment dispersion in water resin liquid.
	Colour:	varies according to shade of finish required.
	Odour:	weak odour.
	Boiling point:	100 C.
	Flash point:	>200 C.
	Density:	
	Solubility:	fully miscible with water.
Hardener:	Viscosity:	
	Physical state:	fluid.
	Colour:	yellow-brown.
	Odour:	amine like.
	Boiling point:	not determined.
	Flash point:	not applicable.
	Self ignition temp:	not applicable.
VOC:	Density:	about 1.07g/cm ³ at 20 C.
	Solubility:	fully miscible with water.
	Viscosity:	5500-7500cPs @ 25°C.
		< 250 grams per litre

10. STABILITY AND REACTIVITY

Resin:	May react exothermally with amines and mercaptans, also with acids. In case of a fire, carbon monoxide, carbon dioxide and other harmful gases may be formed.
Hardener:	Reacts exothermally with acids. In case of a fire, toxic fumes of nitrogen oxides may be formed.

11. TOXICOLOGICAL INFORMATION

Resin:	LD50 oral, rat: 15000mg/kg. Epoxy resins such as contained in this product have been shown to cause irritation in humans on skin and eyes. Skin sensitisation was also observed.
Hardener:	LD50 oral, rat: >10000mg/kg. The polyaminoamide as contained in this product is an irritant to skin and a severe irritant to eyes.

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12. ECOLOGICAL INFORMATION

Environmental precautions: Prevent from entering sewer system, surface water or soil.

13. DISPOSAL CONSIDERATIONS (Applicable to both resin and hardener)

Waste: Burn in a hazardous waste incinerator.

14. TRANSPORT INFORMATION (Applicable to both resin and hardener)

Land transport ADR/RID (cross-border)
ADR/RID Class: 8 Corrosive materials
Number/Letter: 53c
Hazard Index Number: 80
Substance Index Number: 2735
Label: 8
Designation of goods: Polyamine, flussig, atzend, n.a.g.

Maritime transport IMDG:
IMDG Class: 8
Page: 8109-2
UN Number: 2735
Packaging group: III
EMS Number: 8-05
MFAG: 320
Marine pollutant: --
Correct technical name: Polyamines, liquid, corrosive, n.o.s.

Air transport ICAO-Ti and IATA-DGR:
ICAO/IATA Class: 8
UN/ID Number: 2735
Packaging group: III
Correct technical name: Polyamines, liquid, corrosive, n.o.s.

15. REGULATORY INFORMATION

Resin: Hazard labels: N Dangerous for the environment.
Hazard labels: XI Irritating.
R-phrases: R36/38 Irritating to eyes and skin.
R43 May cause sensitisation by skin contact.
51/53 toxic to aquatic organisms.
S-phrases: 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 soap and water.
S37/39 Wear suitable gloves and eye/face protection.
S61 Avoid release to the environment.

Hardener: Hazard labels: C Corrosive.
R-phrases: 21/22 Harmful in contact with skin and if swallowed.
34 Causes burns.
43 May cause sensitisation by skin contact.
S-phrases: 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately.

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

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16. OTHER INFORMATION

The resin and hardener are mixed together in the approximate ratio as follows:

resin:	85-87% by weight
hardener:	13-15% by weight

All the foregoing information should be regarded as being applicable to the finished paint as well as to the individual resin and hardener components.
