

SAFETY DATA SHEET – ZENRITE REPAIR MORTAR

1: IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY:

NAME OF PRODUCT: ZENRITE REPAIR MORTAR
Trowel-applied epoxy resin mortar.

COMPANY: ZENRITE LIMITED

EMERGENCY TELEPHONE: 02476 687167

2: COMPOSITION/INFORMATION ON INGREDIENTS:

A 2-pack system comprising base 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 base:				
Epoxy resin	5-10%	25068-38-6	Xi	R36/38,43,51,53
Epoxy resin	2-5%	28064-14-4	Xi	R36/38,43
Silica sand/fillers	70-90%			
Composition of hardener:				
44-isopropylidenediphenol	5-10%	80-05-7	Xi	R36/37/38,43
Benzyl alcohol	25-50%	100-51-6	Xn	R20/22
3-aminomethyl-3,5,5-trimethylcyclohexylamine	25-50%	2855-13-2	C	R21/22,34,43 52/53
m-phenylenebis(methylamine)	<10%	1477-55-0	C	R22,34
Salicylic acid	<5%	69-72-7	Xn	R22,37/38-41

3: HAZARDS IDENTIFICATION:

Base: Irritating to eyes and skin.
May cause sensitisation by skin contact.
Toxic to aquatic organisms.
May cause long-term adverse effects in the aquatic environment.

Hardener: Causes burns.
Harmful by inhalation, in contact with skin, and if swallowed.
Causes burns, May cause sensitisation by skin contact.
Harmful to aquatic organisms may cause long term adverse effects in the aquatic environment environment.

4: FIRST AID MEASURES:

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: Foam, dry powder, CO2 or waterspray.

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.
Disposal: See section 13.

7: HANDLING AND STORAGE:

Handling: Wear goggles or a face shield, impervious gloves and protective clothing. Ensure good ventilation when working with this material
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, and barrier cream. Apply in a well ventilated area. Keep away from food stuffs and feed wash hands before breaks and at the end of working.

9: PHYSICAL AND CHEMICAL PROPERTIES:

Base: Physical state: sand / fillers / pigment dispersion wetted out by a liquid resin.
Colour: grey.
Odour: weak odour.
Vapour pressure: <0.01 kPa at 20 °C.
Boiling point: >150 °C.
Flash point: >100 °C.
Density: about 2.4 g/cm³ at 20 °C.
Solubility: immiscible with water.
Viscosity: >1 Pa.s at 25 °C.

Hardener: Physical state: free-flowing liquid.
Colour: pale yellow.
Odour: ammoniacal, irritating.
Vapour pressure: about 0.13 kPa at 20 °C.
Boiling point: 205 °C.
Flash point: 105 °C.
Density: about 1.05 g/cm³ at 20 °C.
Solubility: partially miscible with water.
Viscosity: <1 Pa.s at 25 °C.

10: STABILITY AND REACTIVITY:

Base: 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. Liberates ammonia when heated. In case of a fire, toxic fumes of nitrogen oxides, amines and carbon monoxide may be formed. Nitrogen oxide can react with water vapours to form corrosive nitric acid.

11: TOXICOLOGICAL INFORMATION:

Base: LD50 oral, rat: >5000 mg/kg.
Epoxy resins such as contained in this product have been shown to cause irritation in humans on skin and eyes. Sensitisation by skin contact may also occur.

Hardener: LD50 oral, not determined for this blend of materials LD50 benzyl; alcohol 1230 oral LD50 m-phenylenebis(methylamine)1040 oral. The amine/diamine constituents of this product are corrosive to skin and irritant to eyes, and may cause sensitisation.

12: ECOLOGICAL INFORMATION:

Environmental precautions: Prevent from entering sewer system, surface water, or soil.
Epoxy resins such as contained in this product have been shown to be toxic to fish and are not readily biodegradable.

13: DISPOSAL CONSIDERATIONS:

Waste: Burn in a hazardous waste incinerator. Do not re-use containers.
Disposal of waste must be in accordance with local / national regulations

14: TRANSPORT INFORMATION:

Base: Irritant. Contains epoxy constituents, see information supplied by the manufacturer.
ADR Class 9. IMO, IATA: Non classifiable.
UN No: 3082 environmentally hazardous substance liquid NOS.

Hardener: ADR/RID: 2735 Corrosive Liquid, NOS (polyamines contains isophoronediamine and m-phenylenebis(methylamine)) 8,(C7)iii
IMDG corrosive Liquid, NOS (Polyamines contains Isophoronediamine and m-phenylenebis(methylamine)); 8 UN 2735; III;
ICAO/IATA: Corrosive Liquid, NOS (polyamines containing Isophoronediamine and m-phenylenebis(methylamine)); 8; UN 2735; III; FP 105C;

15: REGULATORY INFORMATION:

Base: Hazard labels: Xi Irritant. Contains epoxy constituents, see information supplied by the manufacturer. Dangerous to the environment

R-phrases: R36/38 Irritating to eyes and skin. R43 May cause sensitisation by skin contact.
R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.
S36 Wear suitable protective clothing.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

Hardener: Hazard labels: C Corrosive.

R-phrases: R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R43 May cause sensitisation by skin contact.
R52/53 Harmful to aquatic organisms , may cause long term effects to the aquatic environment

S-phrases: S9 Keep container in well ventilated place. S20 When using do not eat or drink
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).S61 Avoid release to the environment (refer to special instructions / datasheet)

16: OTHER INFORMATION:

Liquid epoxy resins are classified as dangerous to the environment under a voluntary agreement by the Association of Plastic Manufacturers Europe (APME) based on available data. ZENRITE Limited have adopted this practice as part of their duty of care under the environmental Protection Act 1992.

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

base: 90-99% by weight
hardener: 1-10% by weight

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

Hardener revision 08/07/03