



RESIN SURFACES LIMITED

SAFETY DATA SHEET, R.S.DAMP SHIELD.

1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY:

NAME OF PRODUCT: R.S.DAMP SHIELD Clear surface damp-proof membrane.

MANUFACTURERS: Resin Surfaces Ltd, Titan House, Lowick Close, Newby Road Industrial Estate, Hazel Grove, Cheshire, SK7 5ED, England

EMERGENCY TELEPHONE: 0161-483-1232.

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	40-60%	25068-38-6	Xi	R36/38,43,51,53
Epoxy resin	15-25%	28064-14-4	Xi	R36/38,43
Composition of hardener:				
Polyamide polymer	20-40	135108-88-2	C	R22,34
Benzyl alcohol	10-25	100-51-6	Xn	R20/22
369triazaundecamethylenediamine	5-15	112-57-2	C,N	R21/22,34,43,51/53
n AEP	<5	140-31-8	C	R 21/22,34,43,52/53
Bis phenol A Amines	<5 <2	80-05-7	Xn C	R37.41,43,62 10,21/22,34,43

3: HAZARDS IDENTIFICATION:

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

Hardener: Corrosive.
Causes burns.
Harmful by inhalation, in contact with skin, and if swallowed.
Irritating to eyes and skin.
May cause sensitisation by skin contact.

4: FIRST AID MEASURES:

Eye contact: Hold eyelids apart and rinse immediately with water, continuing for at least 15 minutes. Seek medical attention immediately.

Skin contact: Wipe off mechanically and wash with plenty of soap and water, continuing for at least 15 minutes. Remove contaminated clothing. Cover the affected area with a sterile dressing but do not apply greases or ointments. Seek medical attention.

Inhalation: Remove the affected person to fresh air. If breathing has stopped or is laboured, give artificial respiration (eg mouth-to-mouth) and oxygen if available. Seek medical attention.

Ingestion: If swallowed, do not induce vomiting. Give large quantities of water. Seek medical attention immediately.

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.
Storage: Store in a cool, well ventilated place away from foodstuffs. Keep containers sealed until mixing.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION:

Wear goggles or a face shield, impervious gloves and protective clothing. Apply in a well ventilated area.

9: PHYSICAL AND CHEMICAL PROPERTIES:

Base:	Physical state:	clear liquid.
	Colour:	pale yellow.
	Odour:	weak odour.
	Vapour pressure:	<0.01 kPa at 20 °C.
	Boiling point:	>150 °C.
	Flash point:	>100 °C.
	Density:	about 1.15 g/cm ³ 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:	no data.
	Boiling point:	>100 °C.
	Flash point:	>76 °C.
	Density:	about 1.0 g/cm ³ 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, rat: >5 ml/kg.
The amine/diamine constituents of this product are irritant to skin and mucous membranes, 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 Care should be taken to ensure that all containers are properly and thoroughly cleaned prior to disposal to minimize risk of environmental pollution. Check with local / national waste disposal regulations and Local authorities with regard to acceptable routes for disposal.
Do not reuse containers

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 n.o.s..

Hardener: Amines, Liquid, Corrosive NOS*
Packaging group III
ADR/RID class 8, IMDG class 8, ICAO/IATA class 8
UN No: 2735

15: REGULATORY INFORMATION:

Base: Hazard labels: Xi Irritant. Contains epoxy constituents, see information supplied by the manufacturer. N
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. Contains polyaminoamide. Xn Harmful
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.
R50 Toxic to aquatic organisms.
R53 May cause long-term adverse effects in aquatic environments.
R62 possible risk of impaired fertility
S-phrases: S23 Do not breathe vapour/spray.
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.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

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. Resin Surfaces 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: 60-70 % by weight
hardener: 30-40 % by weight

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

Note

R 62 Possible risk of impaired fertility statement will be required for all materials containing Bis Phenol A as a reactant, due to the possible presence of the monomer in the reaction product, at this time it has been included on the label, but may be removed following full calculation, as a result of the low level in the overall formulation.
