

SAFETY DATA SHEET, RESUTOP PITCH

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

NAME OF PRODUCT: RESUTOP PITCH 2-pack epoxy resin floor seal.

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:				
Coal tar pitch	30-50%		T	R45,46,47,60,61
Mannich base	5-10%	68479-80-1	C	R34
Benzyl alcohol	5-10%	100-51-6	Xn	R20/22
Cycloaliphatic amine	0-5%	694-83-7	C	R34,42/43
Cycloaliphatic amine	0-5%	124-09-4	C	R21/22,34,37
Phenol	0-5%	108-95-2	T	R24/25,34
Naphthalene	0-2%	91-20-3		

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: Toxic in contact with skin. Harmful if swallowed. Risk of serious damage to eyes. May cause sensitisation by inhalation, and skin contact. May cause severe skin irritation, pain and may cause burns. Ingestion may cause death unless treated promptly. Contains products of coal tar origin, which are carcinogenic (category II), mutagenic, and toxic to reproduction. Prolonged contact over long periods can result in the appearance of tar warts which require immediate attention. Also contains amines, benzyl alcohol and phenol.

4: FIRST AID MEASURES:

Eye contact: Flood the eyes with plenty of water or an eye wash solution for at least 15 minutes. Seek medical advice.
Skin contact: Remove contaminated clothing. Flush the affected area with plenty of water and wash with soap and water or a mild cleansing agent. Do not apply greases or ointments. Seek medical advice. If the area of skin contact is large, victim should remain under medical supervision for at least 24 hrs. Control shock if present. Launder clothing before reuse.
Inhalation: Remove to fresh air. If breathing has stopped or is laboured, give assisted respiration (eg mouth-to-mouth) or supplemental oxygen if available. Turn victims head to one side. Ensure mucous does not obstruct airway. Seek medical advice.
Ingestion: Give 3-4 glasses of water or milk to drink. Do not induce vomiting. Obtain medical care and hospital treatment immediately.

5: FIRE FIGHTING MEASURES:

Special hazards: Combustible. 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 waterjet. Do not use waterjet.

DATA SHEET

HSTT 06/98
REF: Page 2 of 3

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:

During application: Wear goggles or a face shield, impervious gloves and protective clothing.
Use only in well ventilated areas. Respiratory protection is required in insufficiently ventilated working areas and during spraying. Ensure that persons working in adjacent areas are informed.

9: PHYSICAL AND CHEMICAL PROPERTIES:

Base: Physical state: clear liquid resin.
Colour: pale yellow.
Odour: weak odour.
Vapour pressure: <0.01 kPa at 20 °C.
Boiling point: >150 °C.
Flash point: >100 °C.
Density: about 1.12 g/cm³ at 20 °C.
Solubility: immiscible with water.
Viscosity: <1 Pa.s at 25 °C.
Hardener: Physical state: pigment dispersion in liquid mixture of coal tar and amines.
Colour: black.
Odour: irritating.
Vapour pressure: about 0.02 kPa at 20 °C.
Boiling point: >250 °C.
Flash point: 102 °C.
Density: about 1.4 g/cm³ at 20 °C.
Solubility: immiscible with water.
Viscosity: about 2.0 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: >1500 mg/kg. Short term exposure to fume and vapour may cause irritation to nose, throat or eyes. Headache and nausea are also possible. Splashes to the skin should be prevented since this might cause irritation, particularly in strong sunlight. Long term exposure to high concentrations of vapour may result in damage to the internal organs.

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.

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DATA SHEET

HSTT 06/98
REF: Page 3 of 3

13: DISPOSAL CONSIDERATIONS:

Waste: Burn in a hazardous waste incinerator. Do not re-use 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 nos .

Hardener: Toxic, contains coal tar pitch, alkylamines, liquid, NOS, class 8; UN No.2735;
Packaging group II, IMDG code page 8103.

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.
S-phrases: R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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: T Toxic, contains coal tar pitch, C Corrosive contains alkylamines.
R-phrases: R20/22 Harmful by inhalation and if swallowed.
R24 Toxic in contact with skin.
R34 Causes Burns
R41 Risk of serious damage to eyes.
R42/ 43 May cause sensitisation by inhalation and skin contact.
R45 May cause cancer.
R46 May cause heritable genetic damage.
R60 May impair fertility
R61 May cause harm to the unborn child
S-phrases: 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.
S44 If you feel unwell, seek medical advice (show the label where possible).
S53 Avoid exposure - obtain special instructions before use.

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 the 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: 50-70% by weight
Hardener: 30-50% 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.

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