

SAFETY DATA SHEET - RESUGROUT.

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

NAME OF PRODUCT: **RESUGROUT** Grouting composition.

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 3-pack system comprising base, hardener and aggregate, 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	35-50%	25068-38-6	Xi	R36/38,43
Epoxy resin	20-40%	28064-14-4	Xi	R36/38,43
Benzyl alcohol	5-10%	100-51-6	Xn	R20/22
Non-toxic pigments & additives	5-10%			
Composition of hardener:				
Isophorone Diamine	<50%	2855-13-2	C	R21/22,34,43
Benzyl alcohol	<50%	100-51-6	Xn	R20/22
Composition of aggregate:				
Silica sand	70-90%			
Calcium carbonate	10-30%			

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

Aggregate: May cause damage to the eyes and skin due to the abrasive nature of the material. Exposure to dust may cause severe irritation of the nose, throat and respiratory tract due to respirable silica.

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.

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5: FIRE FIGHTING MEASURES:

Special hazards: f 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. Avoid inhaling dust from aggregate.
Storage: Store in a cool, well ventilated place away from foodstuffs. Keep containers sealed until mixing.

8: EXPOSURE CONTROLS/PERSONAL PROTECTION:

During mixing: Wear dust respirator when handling aggregate.
During application: 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: pigment dispersion in liquid resin.
Colour: varies according to shade of finish required.
Odour: weak odour.
Vapour pressure: <0.01 kPa at 20 °C.
Boiling point: >150 °C.
Flash point: >100 °C.
Density: about 1.15 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: >200 °C.
Flash point: >105 °C.
Density: about 1.0 g/cm³ at 20 °C.
Solubility: immiscible with water.
Viscosity: <1 Pa.s at 25 °C.
Aggregate: Physical state: sandy powder.
Density: about 2.65 g/cm³ at 20 °C.
Solubility: insoluble in water.

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. 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.

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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: >1000 mg/kg.
The amine/diamine constituents of this product are irritant to skin and mucous membranes, irritant to eyes, and may cause sensitisation.

Aggregate: Irritant to eyes. Contains respirable silica in the form of quartz. Prolonged exposure can give rise to fibrosis of the lungs (silicosis).

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.

14: TRANSPORT INFORMATION:

Base: Xi Irritant. Contains epoxy constituents, see information supplied by the manufacturer. N Dangerous to the environment
ADR Class 9
IMO, IATA: Non classifiable.
UN No:3082 Environmentally hazardous substance liquid nos .

Hardener: isophorone diamine solution
Packaging group III
ADR/RID class 8, IMDG class 8, ICAO/IATA class 8
UN No: 2289

Aggregate: Not classified for conveyance purposes.

15: REGULATORY INFORMATION:

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

R-phrases: R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
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: C Corrosive. Contains polyoxyalkylene amine and tri-methylhexamethylene-diamine.

R-phrases: R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R36/38 Irritating to eyes and skin.
R43 May cause sensitisation by skin contact.

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.

Aggregate: S22 Do not breathe dust.
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.

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16: OTHER INFORMATION:

Liquid epoxy resins are classified as dangerous to the environment under a voluntary agreement by the Association of Plastics 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, hardener and aggregate are mixed together in the approximate ratio as follows:

base: 10-30% by weight
hardener: 4-10% by weight
aggregate: 60-90% by weight

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

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