



RESIN SURFACES LIMITED

## SAFETY DATA SHEET, RESUPRIME

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

**NAME OF PRODUCT:** RESUPRIME Non-taint 2-pack epoxy resin bonding agent.

**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            |
| Benzyl alcohol                    | 5-10%       | 100-51-6    | Xn             | R20/22               |
| Hydrocarbon C9                    | 5-15%       | 71302-91-5  | Xn             | R22                  |
| Non-toxic additives               | 5-10%       |             |                |                      |
| Composition of hardener:          |             |             |                |                      |
| tetraethylene pentamine           | <10%        | 112-57-2    | C N            | R 21/22, 34,43,51,53 |
| benzyl alcohol                    | <25%        | 100-51-6    | Xn             | R21,22               |
| tris (dimethylaminomethyl) phenol | 1-5%        | 90-72-2     | Xn             | R22,36,38            |
| bis dimethylaminomethylphenol     | 1-5%        | 714074-89-0 | C              | R34                  |

### 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. Dangerous to the environment  
Causes burns.  
Harmful in contact with skin and if swallowed.  
May cause sensitisation by skin contact.  
Very toxic to aquatic organisms and may cause long term adverse effects in the aquatic 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.

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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.  
Disposal: See section 13.

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**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.

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**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:**

Base: Physical state: 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 1.1 g/cm<sup>3</sup> 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.  
Vapour pressure: about 0.13 kPa at 20 °C.  
Boiling point : 200 °C.  
Flash point: >105 °C.  
Density: about 1.0 g/cm<sup>3</sup> at 20 °C.  
Solubility: immiscible with water.  
Viscosity: <1 Pa.s at 25 °C.

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**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.

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**11: TOXICOLOGICAL INFORMATION:**

Base: 50 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: >1620 mg/kg.  
The amine/diamine constituents of this product are irritant to skin and mucous membranes, irritant to eyes, and may cause sensitisation.

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**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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**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

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**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\*( tetraethylpentamine)  
Packaging group III  
ADR/RID class 8, IMDG class 8,  
ICAO/IATA class 8 amines liquid corrosive n.o.s. (Tetraethylpentamine )  
UN No: 2735

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**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: S51/53 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 tri-methylhexamethylene-diamine.

R-phrases: R21/22 Harmful 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: 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  
S61 Avoid release to the environment. Refer to special instructions/safety data sheet.

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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 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: 60-80% by weight  
hardener: 20-40% by weight

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

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