



RESIN SURFACES LIMITED

SAFETY DATA SHEET, RESUTILE

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

NAME OF PRODUCT: RESUTILE 2-pack polyurethane floor and wall coating.

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

EMERGENCY TELEPHONE: 0161-483 1232.

: 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:				
Polyester polyol resin	20-40%			
1-methoxy-2-propyl acetate	20-40%	108-65-6	Xi	R10, 36
Non-toxic pigments & additives	20-40%			
Composition of hardener:				
Aliphatic polyisocyanate	60-80%	4067-16-7Xi		R38,41,43
1-methoxy-2-propyl acetate	10-20%	108-65-6	Xi	R10,36
Xylene	10-20%	1330-20-7Xn		R10,20/21,38
Hexamethylene-1,6-diisocyanate	< 0.5%	822-06-0	T	R23,36/37/38,42/43

3: HAZARDS IDENTIFICATION:

Base: Flammable.Irritating to eyes
Hardener: Contains isocyanates. See information supplied by the manufacturer.
Flammable. Harmful by inhalation and in contact with the skin Irritating to eyes.

4: FIRST AID MEASURES: (Applicable to both base and hardener)

Eye contact: Rinse carefully and thoroughly with water and seek medical attention.
Skin contact: Wipe off mechanically and wash with plenty of soap and water. Remove contaminated clothing.
Inhalation: Remove the affected person to fresh air and allow to rest. In case of irritation of the respiratory tract, consult a doctor.
Ingestion: In case of swallowing, consult a doctor.

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.

7: HANDLING AND STORAGE:

Handling: Wear goggles or a face shield, impervious gloves and protective clothing. The precautions required in the handling of solvents must be taken.
Storage: Store in a cool, well ventilated place away from foodstuffs. Keep containers dry and tightly 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. 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: pigment dispersion in solvent-based liquid.
Colour: varies according to shade of finish required.
Odour: solvent odour.
Vapour pressure: about 0.5 kPa at 20 °C.
Boiling point: 140 °C.
Flash point: 46 °C.
Density: about 1.45 g/cm³ at 20 °C.
Solubility: immiscible with water.
Viscosity: <1 Pa.s at 25 °C.

Hardener: Physical state: solvent-based clear liquid.
Colour: colourless.
Odour: solvent odour.
Vapour pressure: about 1.0 kPa at 20 °C.
Boiling point: 145 °C.
Flash point: 38 °C.
Density: about 1.1 g/cm³ at 20 °C.
Solubility: immiscible with water.
Viscosity: <1 Pa.s at 25 °C.

10: STABILITY AND REACTIVITY:

Base: No hazardous decomposition products when stored and handled correctly.
Hardener: Reacts exothermally with amines and alcohols. Reacts slowly with water forming carbon dioxide.

11: TOXICOLOGICAL INFORMATION:

Base: LD50 oral, rat: >8500 mg/kg.

Hardener: LD50 oral, rat: >5000 mg/kg. Contains isocyanates. See information supplied by the manufacturer.
Harmful by inhalation and in contact with the skin. Irritant to skin, nose, throat, and respiratory tract. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible. Hypersensitive persons may suffer from these effects even at low concentrations.

12: ECOLOGICAL INFORMATION: (Applicable to both base and hardener)

Environmental precautions: Prevent from entering sewer system, surface water, or soil.

13: DISPOSAL CONSIDERATIONS: (Applicable to both base and hardener)

Waste: Burn in a hazardous waste incinerator.

14: TRANSPORT INFORMATION:

Base: Flammable (flash point 46C). Keep away from foodstuffs.
GGVSee/IMDG Code:3.3 UN No:1866 MFAG:310 EmS:3 05 PG:III MPO:NO
GGVE/GGVS Class RN no.3010 RID/ADR Class RN no.3010, not subject (viscous)
Warning sign: Hazard no.000 Substance no.0000 ICAO/IATA-DGR: 3 1866 III
Declaration for land shipment: 25% synthetic resin methoxypropylacetate
Declaration for sea shipment: resin solution

Hardener: Flammable (flash point 38C). Keep dry. Keep away from foodstuffs.
GGVSee/IMDG Code:3.3 UN No:1866 MFAG:310 EmS:3 05 PG:III MPO:NO

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GGVE/GGVS: Class 3 RID/ADR: Class 3 no.31C
Warning sign: Hazard no.030 Substance no.1866 ICAO/IATA-DGR: 3 1866 III
Declaration for land shipment: 75% synthetic resin / xylene methoxypropylacetate
Declaration for sea shipment: resin solution.

15: REGULATORY INFORMATION:

Base: Hazard labels: Xi Irritant.
R-phrases: R10 Flammable.
R36 Irritating to eyes.
S Phrases: S25 avoid contact with eyes.

Hardener: Hazard labels: Xn Harmful, contains xylene and isocyanates.
R-phrases: R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R36 Irritating to eyes
R43 May cause sensitisation by skin contact
S-phrases S25 Avoid contact with eyes.
S28 After contact with skin, wash immediately with plenty of soap and water.
S37/39 Wear suitable gloves and eye/face protection.
S51 Use only in well-ventilated areas.

16: OTHER INFORMATION:

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 paint as well as to the individual base and hardener components
