



RESIN SURFACES LIMITED

SAFETY DATA SHEET, RESUSCREENED 50.

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

NAME OF PRODUCT: RESUSCREENED 50 Self-coloured industrial floor screed.

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	R-phrases Symbols
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
Non-toxic pigments & Additives	5-20%			
Composition of hardener:				
polyetherdiamines	<40%			C
N-aminoethyl piperazine	10-20%	140-31-8	C	R 21/22, 34,43,51/53
Alkyl phenol	>40 %	25154-52-3		C,N
Composition of aggregate:				
Silica sand	90-100 %			
Silica flour	0-10 %		Xn	R20,48

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 in contact with skin and if swallowed.
May cause sensitisation by skin contact.
Toxic to aquatic organisms and may cause long term adverse effects in the aquatic environment.

Aggregate: Harmful by inhalation. Danger of serious damage to health by prolonged exposure 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 (e.g. 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.
Method for clean up of aggregates only: Dampen down with water to minimise dust creation and spread
Or used contained /filtered vacuum etc to remove dust.
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.
Mix and 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.
Vapour pressure: about 0.13 kPa at 20 °C.
Boiling point: >200 °C.
Flash point: >160 °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. reacts with oxidising agents, reactive metals including copper and zinc.
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. Heat generated in reaction may be sufficient to cause boiling or in extreme cases violent reaction or explosion.

Aggregates Stable

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: 1650mg/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: 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:ADR/RID 1760 Corrosive Liquid n.o.s. (Nonyl phenol / Polyetherdiamine ,)class 8, 6,(c),
IMO Corrosive Liquid n.o.s. (Nonyl phenol / Polyetherdiamine ,)Class 8 Packaging group III
ICAO/IATA Corrosive Liquid n.o.s. (Nonyl phenol / Polyetherdiamine ,) class 8
UN No: 1760 // III

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: 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 N aminoethylpiperazine.

R-phrases: R21/22 Harmful in contact with skin and if swallowed.
R34 Causes burns.
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

Aggregate: Hazard label Harmful Xn
R20 Harmful by inhalation
R48 Danger of serious damage to health by prolonged exposure
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.

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, hardener and aggregate are mixed together in the approximate ratio as follows:

base:	5-20 % by weight
hardener:	2-10 % 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.

Revision major components 6/2000 psm
Revision hardener 4/2001
