



Richco Quartz Screed

DESCRIPTION

Richco Quartz Screed is a multi-coloured mottled effect epoxy floor screed produced by the combination of clear epoxy resins and pigmented quartz aggregates. It is available in a variety of colour mixes - please refer to separate colour chart.

Richco Quartz Screed exhibits the highest order of abrasion resistance and is ideal for the use in commercial or industrial areas where a decorative hardwearing surface is required.

COMPOSITION

Clear solvent free epoxy resin combined with graded coloured quartz aggregates.

APPEARANCE

Multi-coloured mottled effect, slightly slip resistant finish.

DURABILITY

Richco Quartz Screed exhibits the highest order of abrasion resistance.

THICKNESS

Nominal 4-6mm
Thicknesses greater than 6mm should be in-filled with Richco Epoxy Grout and a final 6mm applied to provide a smooth well compacted finish.

TYPICAL INSTALLATIONS

Richco Quartz Screed is used in industrial areas where a more decorative finish is required such as dry food preparation areas, pharmaceuticals, works canteens, laboratories, toilet areas etc. It should not be used in areas where steam cleaning is required or in areas requiring a high degree of chemical resistance.

SUBSTRATES

Richco Quartz Screed adheres well to concrete and grano surfaces.

SURFACE PREPARATION

To be assured of maximum adhesion and properties from Richco resin products the correct surface preparation is essential.

APPLICATION CONDITIONS

10-30°C.

PRIMING

Use Richco E-Coat Primer.

MIXING

Richco Quartz Screed is a three-pack product. Mix the hardener component well into the resin for a period of 1 minute. Transfer the mixed resin into a rotary drum mixer and add the aggregate (20kg pack) slowly until evenly wetted.

APPLICATION TECHNIQUE

Richco Quartz Screed should be applied directly onto uncured wet Richco E-Coat Primer. The mortar is spread to an even thickness and the surface closed using a steel float.

SEALING

Richco PU Grout is used to seal Richco Quartz Screed as follows:-

Sealing (1st Coat)

Apply Richco PU Grout using a dense polypropylene squeegee to force the seal into the surface and to grout any open areas. Pull down any excess seal to leave the surface with an even, thin, transparent surface film. Finish by back rolling with a semi-dry roller. Allow to cure overnight.

Sealing (2nd Coat)

Apply PU Grout or Richco PU Clear using a dense polypropylene squeegee followed by a non-absorbent roller. Pull down as tight as possible to leave a completely sealed, thin, transparent surface film taking care to avoid pooling or roller/squeegee marks.

COVERAGE RATES

	4mm	6mm
Richco Quartz Screed	8kg/m ²	12kg/m ²

SPECIFICATION DETAIL

Richco Quartz Screed 2kg/m² per 1mm thickness.

MAINTENANCE

Richco Quartz Screed can be maintained in its original condition providing contamination is not allowed to build up and the floor is regularly scrubbed using proprietary cleaners.

CURE SCHEDULE

Usable Life 20° C	- 30-40 mins
Initial Set at 20° C	- 8-10 hours
Full Cure at 20° C	- 7 days
Foot Traffic at 20° C	- 12 hours
Heavy Traffic at 20° C	- 2 days

COLOURS AVAILABLE

Richco Quartz Screed is available in a variety of colours. Please see separate colour chart.

TECHNICAL DATA

Compressive strength	65-70N/mm ²
Tensile strength	69-10N/mm ²
Flexural strength	25-30N/mm ²
Slant shear bond strength	35N/mm ²
Flame spread BS476 Part 7	Class 2

HEALTH AND SAFETY

Please read specific health and safety data for this product provided in compliance with the requirements of EC Directive 91/155.



Richco Quartz Screed

STORAGE, MIXING & APPLICATION

The storage, mixing and application conditions can affect the quality of the finish produced.

TECHNICAL ADVICE

For further information on this or any other Richco product, please contact us on 01268 495730.



Richco Quartz Screed

RESIN

1) Identification of substance:

Product Details - Resin component
Trade Names - Richco Quartz Screed
Supplier - Richco Ltd - (Tel : 01268 495730)
Information - Technical Department

2) Hazard Identification

MAIN HAZARDS: 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. Possible risk of impaired fertility. Possible risk of harm to the unborn child.

3) First Aid Measures

INHALATION: Move exposed person to fresh air.

INGESTION: Immediate medical attention is required. DO NOT INDUCE VOMITING.

SKIN: Seek medical attention if irritation or symptoms persist. Wash off immediately with plenty of soap and water. Remove contaminated clothing.

EYES: Rinse immediately with plenty of water. Continue for 15 minutes holding eyelids open. Seek medical attention if irritation or symptoms persist.

4) Fire Fighting Measures

EXTINGUISHING MEDIA: Use as appropriate: carbon dioxide (CO₂). Sand, Do NOT use dry chemical. Water jet, foam.

FIRE HAZARDS: Burning produces irritating, toxic and obnoxious fumes.

PROTECTIVE EQUIPMENT: Self contained breathing apparatus, PVC boots, gloves and protective clothing.

5) Accidental Release Measures

SPILL CLEAN-UP METHODS:

PERSONAL PRECAUTIONS: Wear suitable protective equipment.

ENVIRONMENTAL PRECAUTIONS: Do not allow product to enter drains. Do not flush into surface water. Do not let product contaminate subsoil.

CLEAN-UP PROCEDURES: Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean area thoroughly with detergent.

6) Handling and Storage

HANDLING REQUIREMENTS: Avoid contact with skin and eyes.

STORAGE CONDITIONS: Store at temperatures between 10°C and 30°C. Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

7) Exposure Controls/Personal Protection

EXPOSURE LIMITS

2-methoxy-1-methylethyl acetate	WEL 8-hr limit ppm:50	WEL 8-hr limit mg/m ³ :274
(1-Methoxypropl-acetate)	WEL 15 min limit ppm:100	WEL 15 min limit mg/m ³ :548

PERSONAL PROTECTION

Engineering Measures	Ensure adequate ventilation of the working area.
Occupational Exposure	Keep away from food, drink and animal feedingstuffs.
Hand Protection	Nitrile rubber gloves. Butyl rubber gloves.
Eye Protection	Approved safety goggles.
Protective Equipment	Protect clothing from contact with the product.
Calcium hydroxide	<5 OES (8 hr TWA) 5mg m-3

8) Physical and Chemical Properties

Description	Liquid
Colour	Various
Odour	Slight
pH	7 (neutral)
Boiling Point	>200°C
Flash Point	>150°C
Relative Density	approx. 1.10
Viscosity	Flow Time in 3mm ISO cup (ISO 2431) - 10 - 16 poise @ 20°C
VOC (Volatile organic compounds)	39 g/l

9) Stability and Reactivity

STABILITY: Stable under normal conditions

CONDITIONS TO AVOID: Heating produces hazardous fumes.

MATERIALS TO AVOID: Strong bases. Strong oxidising agents.

10) Toxicological information

Acute Toxicity	No data is available on this product.
Sensitisation	May cause sensitisation by skin contact.

11) Ecological Information

ECOTOXICITY: No data is available on this product.

DEGRADABILITY: not readily biodegradable.



Richco Quartz Screed

12) Disposal Considerations

GENERAL INFORMATION: Dispose of in compliance with all local and national regulations.

DISPOSAL OF PACKAGING: Empty containers can be sent to landfill after cleaning, if in compliance with local and national regulations.

13) Transport Information ADR/RID

UN	3082
Class	9
Proper Shipping	ENVIRONMENTALLY
Name	HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains epoxy resins)
Packing Group	III
Hazard ID	90

IMDG

UN	3082
Class	9
EmS Code	F-A S-F
Packing Group	III - Marine pollutant

IATA

UN	3082
Class	9
Packing Instruction (cargo)	914
Packing Instruction (Passenger)	914
Packing Group	III
Subsidiary Risk - Maximum Quantity	450L
Subsidiary Risk - Maximum Quality	450L

14) Regulatory Information

LABELLING: P5 - Contains epoxy constituents. See information supplied by the manufacturer.

SYMBOLS: Xn - Harmful; N - Dangerous for the environment.

Risk 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.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child

Safety Phrases

S24	Avoid contact with skin.
S29	Do not empty into drains
S37	Wear suitable gloves.

15) Other Information

Text of risk phrases in section 16:

R10	Flammable
R22	Harmful if swallowed
R34	Causes burns
R36	Irritating to eyes
R36 / 37 / 38	Irritating to eyes, respiratory systems and skin.
R38	Irritating to skin
R43	May cause sensitisation by skin contact
R50/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.

FURTHER INFORMATION

The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and belief at the date of publication, however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process.

Maximum content of VOC: 39g/l



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16) COMPOSITION/ INFORMATION ON INGREDIENTS

Hazardous Components:

INGREDIENT NAME	Conc	CAS	EINECS	Symbols / Risk phrases
BISPHENOL A-(epichlorhydrin) (reaction product)	70 - 80%	25068-38-6	500-033-5	Xi; R36/37/38 R43 N; R53/53
NONYLPHENOL	1 - 10%	25154-52-3	246-672-0	Repr Cat 3; R62 Repr Cat 3; R62 Xn; R22 C; R34 N; R50/53
2-METHOXY-1-METHYLETHYL ACETATE (1-Methoxyproplacetate)	1 - 10%	108-65-6	203-603-9	R10 Xi; R36
Glycidylether of a C12/C14 - alcohol mixture	10 - 20%	68609-97-2	271-846-6	Xi; R36 Xi;R38 Xi;R63 N;R53/R53



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HARDENER

1) Identification of substance:

Product Details - Hardener component
Trade Names - Richco Quartz Screed
Supplier - Richco Ltd - (Tel : 01268 495730)
Information - Technical Department

2) Hazard Identification

MAIN HAZARDS: Harmful by inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3) First Aid Measures

GENERAL: In case of accident or if you feel unwell, seek medical advice immediately (who the label where possible).

AFTER INHALATION: Move the exposed person to fresh air.

AFTER SKIN CONTACT: Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist. Causes burns.

AFTER EYE CONTACT: Rinse immediately with plenty of water. Continue for at least 15 minutes holding the eyelids open. Seek medical attention if irritation or symptoms persist.

AFTER SWALLOWING: DO NOT INDUCE VOMITING. Immediate medical attention is required. If unconscious place in the recovery position.

4) Fire Fighting Measures

EXTINGUISHING MEDIA: Carbon dioxide (CO2) Dry chemical. Use extinguishing media appropriate to the surrounding fire conditions. Alcohol resistant foam. Do NOT use: Water jet.

FIRE HAZARDS: Burning produces irritating, toxic and obnoxious fumes.

PROTECTIVE EQUIPMENT: Self contained breathing apparatus

5) Accidental Release Measures

PERSONAL PRECAUTIONS: Wear suitable protective equipment.

ENVIRONMENTAL PRECAUTIONS: Advise local authorities if large spills cannot be contained. Do not allow product to enter drains. Do not flush into surface water.

CLEAN-UP PROCEDURES: Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean area thoroughly with detergent.

6) Handling and Storage

HANDLING: Avoid contact with eyes and skin. Use in a well ventilated area. Do not breathe gas/fumes/vapour/spray. Wear suitable protective equipment. Do not eat, drink or smoke in areas where this product is used or stored.

STORAGE: Store at temperatures above 10°. Store at temperatures below 30°C. Keep in a cool, dry, well ventilated area. Keep containers tightly closed.

7) Exposure Controls & Personal Protection

ENGINEERING MEASURES: Ensure adequate ventilation of the working area.

OCCUPATIONAL EXPOSURE CONTROLS: Keep away from food, drink and animal feedingstuffs.

RESPIRATORY PROTECTION: Wear suitable respiratory equipment.

HAND PROTECTION: Nitrile rubber gloves. Butyl rubber gloves. Neoprene gloves.

EYE PROTECTION: Approved safety goggles.

PROTECTIVE EQUIPMENT: Protect clothing from contact with the product.

8) Physical and Chemical Properties

9) Stability and Reactivity

STABILITY: Stable under normal conditions.

CONDITIONS TO AVOID: Heating produces hazardous fumes.

MATERIALS TO AVOID: Acids. Reducing agents. Ixidising agents. Bases

10) Toxicological Information

ACUTE TOXICITY: ORL RAT LD50 > 1000 mg/kg

CORROSIVITY: Irritating to eyes.

SENSITIZATION: May cause sensitisation by skin contact.

MUTAGENIC EFFECTS: Adverse mutagenic and teratogenic effects have been found in laboratory animals.

REPRODUCTIVE TOXICITY: Adverse reproductive effects have been found in laboratory animals.

11) Ecological Information

ECOTOXICITY: No data is available on this product.

12) Disposal Considerations

GENERAL INFORMATION: Dispose of in compliance with all local and national regulations.

DISPOSAL OF PACKAGING: Empty containers can be sent for disposal or recycling.

13) Transport Information



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14) Regulatory Information

LABELLING: The product is classified in accordance with 67/548/EEC.

SYMBOLS: C- Corrosive

RISK PHRASES

R20/21/22	Harmful by inhalation, in contact with skin and if swallowed.
R34	Causes burns
R43	May cause sensitisation by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

SAFETY PHRASES

S24	Avoid contact with skin
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 water
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 (who the label where possible)

15) Other Information

Text of risk phrases in section 16)

R20/22	Harmful by inhalation and if swallowed
R21/22	Harmful in contact with skin and if swallowed
R34	Caused burns
R43	May cause sensitisation by skin contact
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

16) COMPONENT COMPOSITION INFORMATION

Hazardous Components:

INGREDIENT NAME	Conc.	CAS	EINECS	Symbols / Risk Phrases
3-Aminomethyl-3,5,5-trimethylcyclohexylamine	40 - 50%	2855-13-2	220-666-8	Xn; R21/22 C;R34 R43 R52/53
Benzyl alcohol	40 - 50%	100-51-6	202-859-9	Xn; R20/22