

SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

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RonaDeck Resin Bound Surfacing System Part A

Revision 0

Revision date 2012-01-26

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	RonaDeck Resin Bound Surfacing System Part A
Product code	PC331

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC1] Adhesives, sealants; [PROC5] Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact); [ERC5] Industrial use resulting in inclusion into or onto a matrix; [AC4] Stone, plaster, cement, glass and ceramic articles;
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1.3. Details of the supplier of the safety data sheet

Company	Ronacrete Limited
Address	Ronac House Flex Meadow Harlow Essex CM19 5TD United Kingdom
Web	www.ronacrete.co.uk
Telephone	+44 (0) 1279 638700
Fax	+44 (0) 1279 638701
Email	technical@ronacrete.co.uk

1.4. Emergency telephone number

Emergency telephone number	+44 (0) 1279 638700 Daytime
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	R52/53 Symbols:
Main hazards	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Risk phrases	R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Drying agent		165101-57-5			1 - 10%	

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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
Skin contact	Wash with soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting. If swallowed seek medical advice immediately and show this safety data sheet or container label.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Carbon dioxide (CO ₂). Foam. Powder. Do NOT use water jet.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes. Do not breathe smoke.
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5.3. Advice for firefighters

	Wear full protective clothing and self contained breathing apparatus.
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Further information

	Do not allow runoff water to enter sewers or drains.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Keep personnel away from spill. Wear suitable protective clothing, gloves and eye/face protection.
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6.2. Environmental precautions

	Contain spillage and do not allow to contaminate soil and drains or watercourses.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling


	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes and skin.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep in a cool, dry, well ventilated area.
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SECTION 8: Exposure controls/personal protection

8.2. Exposure controls

	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
Eye / face protection	Approved safety goggles. Provide eye wash station.
Skin protection - Handprotection	Chemical resistant disposable gloves are recommended as they promote regular changing.
Skin protection - Other	Protective clothing is recommended, including waterproof gloves and boots. Recommend to wear single-use disposable, waterproof overalls.
Respiratory protection	Wear a disposable mask complying with EN149:2001+A1:2009 FFP1.
Further information	

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Further information

Hygienic work routines	Keep away from food, drink and animal feedingstuffs. Wash hands after handling the product.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Yellow
Odour	Mild
Boiling point	260 - 300 °C
Relative density	0.9 - 1 (Water = 1 @ 20 °C)

SECTION 10: Stability and reactivity

10.2. Chemical stability

	Stable under normal conditions.
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SECTION 11: Toxicological information

11.1.4. Toxicological Information

	No data available
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SECTION 12: Ecological information

12.1. Toxicity

Drying agent	Daphnia EC50/48h: 1.1000 mg/l	Algae IC50/72h: 5.6000 mg/l
	Fish LC50/96h: 20.0000 mg/l	

Further information

	Avoid release to the environment.
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SECTION 13: Disposal considerations

Disposal methods

	For quantities up to 5 kg of Part A, mix with an equal amount of Part B. Heat will evolve from this mixture, so pour onto aggregate to increase surface area and allow to harden. Do not leave the mixture in the container for longer than 5 minutes. Where there is an excess of Part A or Part B that cannot be reacted off, this must be disposed of by a licensed waste disposal company in accordance with national guidelines. All containers must be properly labelled and a Safety data sheet provided for the waste disposal company.
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SECTION 14: Transport information

ADR/RID

	The product is not classified as dangerous for carriage.
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IMDG

	The product is not classified as dangerous for carriage.
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IATA

	The product is not classified as dangerous for carriage.
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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulations	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
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SECTION 16: Other information**Other information**

Text of risk phrases in Section 3	R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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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.
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RonaDeck Resin Bound Surfacing System Part B

Revision 0

Revision date 2012-01-26

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	RonaDeck Resin Bound Surfacing System Part B
Product code	RM586

1.2. Relevant identified uses of the substance or mixture and uses advised against

Product Use	[SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen); [PC1] Adhesives, sealants; [PROC5] Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact); [ERC5] Industrial use resulting in inclusion into or onto a matrix; [AC4] Stone, plaster, cement, glass and ceramic articles;
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1.3. Details of the supplier of the safety data sheet

Company	Ronacrete Limited
Address	Ronac House Flex Meadow Harlow Essex CM19 5TD United Kingdom
Web	www.ronacrete.co.uk
Telephone	+44 (0) 1279 638700
Fax	+44 (0) 1279 638701
Email	technical@ronacrete.co.uk

1.4. Emergency telephone number


Emergency telephone number	+44 (0) 1279 638700 Daytime
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.1. Classification - 1999/45/EC	Xn; R20 Xi; R37-43 Symbols: Xn: Harmful.
Main hazards	Harmful by inhalation. Irritating to respiratory system. May cause sensitisation by skin contact.

2.2. Label elements

Symbols	Xn: Harmful. 
Risk phrases	R20 - Harmful by inhalation. R37 - Irritating to respiratory system. R43 - May cause sensitisation by skin contact.
Safety phrases	S24 - Avoid contact with skin. S37 - Wear suitable gloves.

RonaDeck Resin Bound Surfacing System Part B

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SECTION 3: Composition/information on ingredients

3.2. Mixtures

67/548/EEC / 1999/45/EC

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Hexamethylene-1,6-diisocyanate Homopolymer		28182-81-2			90 - 100%	Xn; R20 Xi; R37-43
Hexamethylene-1,6-diisocyanate		822-06-0			0 - 0.5%	T; R23 Xn; R42/43 Xi; R36/38

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. Seek medical attention.
Eye contact	Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.
Skin contact	Remove contaminated clothing. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting. If swallowed seek medical advice immediately and show this safety data sheet or container label.

SECTION 5: Firefighting measures

5.1. Extinguishing media

	Carbon dioxide (CO ₂). Foam. Powder. Water mist/fog. Do NOT use water jet.
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5.2. Special hazards arising from the substance or mixture

	Burning produces irritating, toxic and obnoxious fumes.
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5.3. Advice for firefighters

	Wear full protective clothing and self contained breathing apparatus.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

	Do not breathe vapours. Avoid contact with eyes and skin. Wear full protective clothing, gloves and eye/face protection.
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6.2. Environmental precautions

	Contain spillage and do not allow to contaminate soil and drains or watercourses.
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6.3. Methods and material for containment and cleaning up

	Absorb with inert, absorbent material. Clean spillage area thoroughly with plenty of water. Do not allow runoff water to enter sewers or drains.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

	Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes and skin. Do not breathe vapours. Use only in well-ventilated areas. Provide eye wash station.
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7.2. Conditions for safe storage, including any incompatibilities

	Keep container tightly closed and dry. Keep in a cool, dry, well ventilated area.
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7.3. Specific end use(s)

	Do not eat, drink or smoke in areas where this product is used or stored.
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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8.1. Control parameters

8.1.1. Exposure Limit Values

Hexamethylene-1,6-diisocyanate	WEL 8-hr limit ppm: WEL 15 min limit ppm:	WEL 8-hr limit mg/m ³ : 0.02 WEL 15 min limit mg/m ³ : 0.07
Hexamethylene-1,6-diisocyanate Homopolymer	WEL 8-hr limit ppm: WEL 15 min limit ppm:	WEL 8-hr limit mg/m ³ : 0.02 WEL 15 min limit mg/m ³ : 0.07

8.2. Exposure controls

	
8.2.1. Appropriate engineering controls	Ensure adequate ventilation of the working area.
Eye / face protection	Approved safety goggles. Provide eye wash station.
Skin protection - Handprotection	Chemical resistant disposable gloves are recommended as they promote regular changing.
Skin protection - Other	Wear suitable protective clothing. Recommend to wear single-use disposable, waterproof overalls.
Respiratory protection	Wear a disposable mask complying with EN149:2001+A1:2009 FFP1.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State	Liquid
Colour	Colourless
Odour	Mild
Flash point	228 °C

SECTION 10: Stability and reactivity

10.2. Chemical stability

	Stable under normal conditions.
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10.3. Possibility of hazardous reactions

	Exothermic reaction with amines and alcohols. Reacts slowly with water forming CO ₂ ; in closed containers risk of bursting due to build-up of pressure.
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10.5. Incompatible materials

	Alcohols. Amines. Water.
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10.6. Hazardous decomposition products

	Burning produces obnoxious and irritating fumes.
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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation	Irritating to skin.
Serious eye damage/irritation	Irritant effect.
Respiratory or skin sensitisation	May cause sensitisation by inhalation and skin contact.

11.1.4. Toxicological Information

Hexamethylene-1,6-diisocyanate Homopolymer	Oral Rat LD ₅₀ : 2500 mg/kg
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SECTION 12: Ecological information**12.1. Toxicity**

Hexamethylene-1,6-diisocyanate Homopolymer	Algae EC50/72h: >1000mg/l	Daphnia LC50/48h: >100 mg/l
	Brachydanio Rerio LC50/96h: >100 mg/l	

12.2. Persistence and degradability

Not readily biodegradable.

12.3. Bioaccumulative potential

There is no evidence that bioaccumulation will occur.

SECTION 13: Disposal considerations**Disposal methods**

For quantities up to 5 kg of Part B, mix with an equal amount of Part A. Heat will evolve from this mixture, so pour onto aggregate to increase surface area and allow to harden. Do not leave the mixture in the container for longer than 5 minutes. Where there is an excess of Part A or Part B that cannot be reacted off, this must be disposed of by a licensed waste disposal company in accordance with national guidelines. All containers must be properly labelled and a Safety data sheet provided for the waste disposal company.

SECTION 14: Transport information**ADR/RID**

The product is not classified as dangerous for carriage.

IMDG

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SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****Regulations**

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

SECTION 16: Other information**Other information****Text of risk phrases in Section 3**

R20 - Harmful by inhalation.
 R23 - Toxic by inhalation.
 R36/38 - Irritating to eyes and skin.
 R37 - Irritating to respiratory system.
 R42/43 - May cause sensitisation by inhalation and skin contact.
 R43 - May cause sensitisation by skin contact.

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.