



SAFETY DATA SHEET
RonaDeck Resin Bonded Surfacing - Part A

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

1.1. Product identifier

Product name RonaDeck Resin Bonded Surfacing - Part A

Product number PC177

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

Identified uses [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen) [PROC5] Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) [AC4] Stone, plaster, cement, glass and ceramic articles [ERC5] Industrial use resulting in inclusion into or onto a matrix

1.3. Details of the supplier of the safety data sheet

Supplier Ronacrete Limited
 Ronac House
 Flex Meadow
 Harlow
 Essex
 CM19 5TD
 www.ronacrete.co.uk
 Tel: 01279 638 700
 Fax: 01279 638 701
 email: sds@ronacrete.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0) 1279 638700

National emergency telephone number UK Consumers NHS 111. Medical professionals - www.toxbase.org

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified

Health hazards Not Classified

Environmental hazards Not Classified

2.2. Label elements

Hazard statements NC Not Classified

Precautionary statements P102 Keep out of reach of children.
 P234 Keep only in original container.
 P264 Wash hands thoroughly after handling.
 P404 Store in a closed container.
 P501 Dispose of contents/container in accordance with local regulations.

2.3. Other hazards

RonaDeck Resin Bonded Surfacing - Part A

None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Composition comments This product does not contain any hazardous ingredients, or ingredients with national workplace exposure limits.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation If spray/mist has been inhaled, proceed as follows. Move affected person to fresh air at once. Get medical attention if symptoms are severe or persist.

Ingestion Rinse nose and mouth with water. Get medical attention.

Skin contact Rinse immediately with plenty of water.

Eye contact Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

4.2. Most important symptoms and effects, both acute and delayed

General information See Section 11 for additional information on health hazards.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media The product is non-combustible. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards Not known.

5.3. Advice for firefighters

Protective actions during firefighting Fight fire with normal precautions from a reasonable distance. Containers close to fire should be removed or cooled with water.

Special protective equipment for firefighters Use protective equipment appropriate for surrounding materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Environmental precautions Avoid release to the environment. Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Place waste in labelled, sealed containers. Flush contaminated area with plenty of water.

6.4. Reference to other sections

RonaDeck Resin Bonded Surfacing - Part A

Reference to other sections For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Do not eat, drink or smoke when using this product.

Advice on general occupational hygiene Wash contaminated skin thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry and cool place. Avoid freezing. Store at temperatures between 5°C and 35°C.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

None of the ingredients are listed.

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Wear eye protection.

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible.

Other skin and body protection

Wear appropriate clothing to prevent skin contamination.

Hygiene measures

Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes wet or contaminated.

Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit.

Environmental exposure controls

Keep container tightly sealed when not in use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

RonaDeck Resin Bonded Surfacing - Part A

10.1. Reactivity

Reactivity No test data specifically related to reactivity available for this product or its ingredients.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None known.

10.4. Conditions to avoid

Conditions to avoid Avoid the following conditions: Freezing. Avoid heat.

10.5. Incompatible materials

Materials to avoid None known.

10.6. Hazardous decomposition products

Hazardous decomposition products None known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation Spray/mists may cause respiratory tract irritation.

Ingestion May cause stomach pain or vomiting. Diarrhoea.

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact May cause irritation.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Not Classified for Environmental

12.2. Persistence and degradability

Persistence and degradability No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

RonaDeck Resin Bonded Surfacing - Part A

13.1. Waste treatment methods

Disposal methods Dispose of waste product or used containers in accordance with local regulations

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

EU legislation Dangerous Preparations Directive 1999/45/EC.
 Dangerous Substances Directive 67/548/EEC.
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).
 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) (as amended).

Guidance EH40/2005 Workplace exposure limits.
 Supplier product information and safety data sheets.
www.echa.europa.eu
www.hse.gov.uk

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by sds@ronacrete.co.uk

RonaDeck Resin Bonded Surfacing - Part A

Revision date	16/06/2015
Revision	1
SDS number	4742

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.



Ronacrete

SAFETY DATA SHEET

RonaDeck Resin Bonded Surfacing - Part B

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

1.1. Product identifier

Product name RonaDeck Resin Bonded Surfacing - Part B
Product number PC177

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

Identified uses [SU22] Professional uses: Public domain (administration, education, entertainment, services, craftsmen) [PROC5] Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact) [AC4] Stone, plaster, cement, glass and ceramic articles [ERC5] Industrial use resulting in inclusion into or onto a matrix

1.3. Details of the supplier of the safety data sheet

Supplier Ronacrete Limited
 Ronac House
 Flex Meadow
 Harlow
 Essex
 CM19 5TD
 www.ronacrete.co.uk
 Tel: 01279 638 700
 Fax: 01279 638 701
 email: sds@ronacrete.co.uk

1.4. Emergency telephone number

Emergency telephone +44 (0) 1279 638700

National emergency telephone number UK Consumers NHS 111. Medical professionals - www.toxbase.org

SECTION 2: Hazards identification

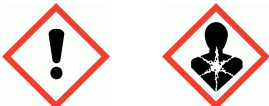
2.1. Classification of the substance or mixture

Classification

Physical hazards Not Classified
Health hazards Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373
Environmental hazards Not Classified

2.2. Label elements

Pictogram



Signal word Danger

RonaDeck Resin Bonded Surfacing - Part B

Hazard statements	<p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H319 Causes serious eye irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H351 Suspected of causing cancer.</p> <p>H373 May cause damage to organs through prolonged or repeated exposure.</p>
Precautionary statements	<p>P201 Obtain special instructions before use.</p> <p>P202 Do not handle until all safety precautions have been read and understood.</p> <p>P260 Do not breathe vapour/spray.</p> <p>P261 Avoid breathing vapour/spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P284 [In case of inadequate ventilation] wear respiratory protection.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P308+P313 IF exposed or concerned: Get medical advice/attention.</p> <p>P312 Call a POISON CENTER/doctor if you feel unwell.</p> <p>P314 Get medical advice/attention if you feel unwell.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p> <p>P337+P313 If eye irritation persists: Get medical advice/attention.</p> <p>P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p> <p>P405 Store locked up.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
Supplemental label information	<p>EUH204 Contains isocyanates. May produce an allergic reaction.</p>
Contains	<p>isocyanic acid, polymethylenepolyphenylene ester, 4,4'-methylenediphenyl diisocyanate</p>

2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

RonaDeck Resin Bonded Surfacing - Part B

isocyanic acid, polymethylenepolyphenylene ester	60-100%
CAS number: 9016-87-9	
Classification Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 Carc. 2 - H351 STOT SE 3 - H335 STOT RE 2 - H373	
4,4'-methylenediphenyl diisocyanate	30-60%
CAS number: 101-68-8 EC number: 202-966-0	
Classification Skin Irrit. 2 - H315 Carc. 2 - H351 Resp. Sens. 1 - H334 Acute Tox. 4 - H332 Skin Sens. 1 - H317 Eye Irrit. 2 - H319 STOT SE 3 - H335 STOT RE 2 - H373 STOT SE 3 - H335	

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move affected person to fresh air at once. Get medical attention immediately. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth thoroughly with water. Get medical attention. Do not induce vomiting unless under the direction of medical personnel.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if symptoms are severe or persist after washing.
Eye contact	Get medical attention immediately. Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation	May cause eye and respiratory system irritation. Dryness of mouth and throat. May cause coughing and difficulties in breathing. May cause inhalation hypersensitivity (occupational asthma) in sensitive individuals. Development of symptoms may be delayed for 24 to 48 hours.
Ingestion	Overexposure may cause the following adverse effects: Gastrointestinal symptoms, including upset stomach.

RonaDeck Resin Bonded Surfacing - Part B

Skin contact This product is strongly irritating. May cause skin sensitisation or allergic reactions in sensitive individuals.

Eye contact This product is strongly irritating. Prolonged contact may cause redness and/or tearing.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media Do not use water, if avoidable.

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products Carbon monoxide (CO). Carbon dioxide (CO₂). Oxides of nitrogen.

5.3. Advice for firefighters

Protective actions during firefighting Evacuate area.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure procedures and training for emergency decontamination and disposal are in place. No action shall be taken without appropriate training or involving any personal risk. Avoid inhalation of vapours and contact with skin and eyes.

6.2. Environmental precautions

Environmental precautions Avoid the spillage or runoff entering drains, sewers or watercourses.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. Provide adequate ventilation.

6.4. Reference to other sections

Reference to other sections For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions For personal protection, see Section 8.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep away from food, drink and animal feeding stuffs. Protect from sunlight. Keep away from heat, sparks and open flame.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

RonaDeck Resin Bonded Surfacing - Part B

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

Occupational exposure limits

isocyanic acid, polymethylenepolyphenylene ester

Long-term exposure limit (8-hour TWA): WEL 0.02 mg/m³ Hydrogen cyanide (HCN).

Short-term exposure limit (15-minute): WEL 0.07 mg/m³ Hydrogen cyanide (HCN).

4,4'-methylenediphenyl diisocyanate

Long-term exposure limit (8-hour TWA): WEL 0.01 mg/m³ Hydrogen cyanide (HCN).

Short-term exposure limit (15-minute): WEL 0.07 mg/m³ Hydrogen cyanide (HCN).

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment



Appropriate engineering controls

As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist.

Eye/face protection

Wear tight-fitting, chemical splash goggles or face shield.

Hand protection

Wear protective gloves made of the following material: Butyl rubber. Laminate of polyethylene and ethylene vinyl alcohol (PE/EVOH). Nitrile rubber. Polyvinyl chloride (PVC).

Other skin and body protection

Wear protective clothing.

Hygiene measures

Provide eyewash station. Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated. Take off immediately all contaminated clothing and wash it before reuse. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Respiratory protection

Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked.

Environmental exposure controls

Keep container tightly sealed when not in use.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Brown.
Odour	Musty (mouldy).
Flash point	230°C CC (Closed cup).
Relative density	~ 1.23
Solubility(ies)	Insoluble in water.

9.2. Other information

RonaDeck Resin Bonded Surfacing - Part B

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity See Section 10.3 (Possibility of hazardous reactions) for further information.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions Reacts with water. Hydrogen.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Water, moisture. Alcohols. Amines. Acids. Alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon dioxide (CO₂). Carbon monoxide (CO). Oxides of nitrogen. Hydrocarbons. Hydrogen cyanide (HCN).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - inhalation

ATE inhalation (gases ppm) 11,250.0

ATE inhalation (vapours mg/l) 11.0

ATE inhalation (dusts/mists mg/l) 3.75

Specific target organ toxicity - single exposure

Target organs Respiratory system, lungs

Specific target organ toxicity - repeated exposure

Target organs Respiratory system, lungs

Inhalation May cause respiratory allergy. May cause inhalation hypersensitivity (occupational asthma) in sensitive individuals.

Ingestion Gastrointestinal symptoms, including upset stomach.

Skin contact This product is strongly irritating. May cause sensitisation by skin contact. Avoid contact with skin.

Eye contact Overexposure may cause the following adverse effects: Severe irritation, burning and tearing.

SECTION 12: Ecological Information

12.1. Toxicity

Toxicity Not Classified for Environmental

12.2. Persistence and degradability

RonaDeck Resin Bonded Surfacing - Part B

Persistence and degradability Not expected to be readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential Potentially bioaccumulating.

12.4. Mobility in soil

Mobility The product reacts with water to form a solid, insoluble reaction product which is not biodegradable.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Waste is classified as hazardous waste.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

RonaDeck Resin Bonded Surfacing - Part B

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

EU legislation	Dangerous Preparations Directive 1999/45/EC. Dangerous Substances Directive 67/548/EEC. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). 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) (as amended).
Guidance	www.echa.europa.eu www.hse.gov.uk Workplace Exposure Limits EH40. Supplier product information and safety data sheets.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Issued by	sds@ronacrete.co.uk
Revision date	17/06/2015
Revision	1
SDS number	4745
Hazard statements in full	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs (Respiratory system, lungs) through prolonged or repeated exposure.