



**SAFETY DATA SHEET**  
**RonaBond Flowable Micro Concrete**

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

**1.1. Product identifier**

**Product name** RonaBond Flowable Micro Concrete  
**Product number** PC080

**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) [AC4] Stone, plaster, cement, glass and ceramic articles [ERC5] Industrial use resulting in inclusion into or onto a matrix [PROC5] Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

**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** Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317  
**Environmental hazards** Not Classified

**Classification (67/548/EEC or 1999/45/EC)** Xi; R41, R38. R43

**2.2. Label elements**

## RonaBond Flowable Micro Concrete

### Pictogram



### Signal word

Danger

### Hazard statements

H315 Causes skin irritation.  
 H317 May cause an allergic skin reaction.  
 H318 Causes serious eye damage.

### Precautionary statements

P261 Avoid breathing vapour/spray.  
 P264 Wash contaminated skin thoroughly after handling.  
 P272 Contaminated work clothing should not be allowed out of the workplace.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P302+P352 IF ON SKIN: Wash with plenty of water.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P321 Specific treatment (see medical advice on this label).  
 P332+P313 If skin irritation occurs: Get medical advice/attention.  
 P333+P313 If skin irritation or rash occurs: Get medical advice/attention.  
 P362+P364 Take off contaminated clothing and wash it before reuse.  
 P501 Dispose of contents/container in accordance with national regulations.

### Supplemental label information

EUH203 Contains chromium (VI). May produce an allergic reaction.

### Contains

Cement, calcium aluminium sulfate

### 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>Cement</b>	<b>10-30%</b>
CAS number: 65997-15-1	
<b>Classification</b>	
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Skin Sens. 1 - H317	
STOT SE 3 - H335	
STOT SE 3 - H335	
<b>Cement additive.</b>	<b>10-30%</b>
CAS number: 65996-69-2	
<b>Classification</b>	
Not Classified	

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<b>Limestone</b>	<b>5-10%</b>
CAS number: 471-34-1                      EC number: 207-439-9	
<b>Classification</b> Not Classified	
<b>quartz (respirable silica)</b>	<b>&lt;1%</b>
CAS number: 14808-60-7	
<b>Classification</b> STOT RE 1 - H372	
<b>calcium oxide</b>	<b>&lt;1%</b>
CAS number: 1305-78-8	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335	
<b>cement additive</b>	<b>&lt;1%</b>
CAS number: —	
<b>Classification</b> Not Classified	
<b>calcium aluminium sulfate</b>	<b>&lt;1%</b>
CAS number: 1305-78-8	
<b>Classification</b> Skin Sens. 1 - H317	
<b>Tin sulphate</b>	<b>&lt;1%</b>
CAS number: 7488-55-3	
M factor (Acute) = 1                      M factor (Chronic) = 1	
<b>Classification</b> Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1B - H317 Muta. 2 - H341 Repr. 2 - H361 STOT SE 3 - H335 STOT RE 2 - H373 STOT SE 3 - H335 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	

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<b>2,-di-tert-butyl-p-cresol</b> CAS number: — M factor (Acute) = 1                      M factor (Chronic) = 1	<b>&lt;1%</b>
<b>Classification</b> Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	
<b>aluminium powder</b> CAS number: —	<b>&lt;1%</b>
<b>Classification</b> Flam. Sol. 1 - H228	

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

<b>Inhalation</b>	Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms are severe or persist.
<b>Ingestion</b>	Rinse mouth thoroughly with water. Do not induce vomiting. Get medical attention if a large quantity has been ingested.
<b>Skin contact</b>	After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.
<b>Eye contact</b>	Remove any contact lenses and open eyelids wide apart. Rinse immediately with plenty of water. Continue to rinse for at least 15 minutes and get medical attention.

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

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Dust may irritate the respiratory system.
<b>Ingestion</b>	May cause discomfort if swallowed.
<b>Skin contact</b>	This product is strongly irritating. Prolonged contact with moist or wet product may cause burns. May cause skin sensitisation or allergic reactions in sensitive individuals.
<b>Eye contact</b>	Symptoms following overexposure to dust may include the following: Severe irritation, burning, tearing and blurred vision. May cause chemical eye burns.

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

<b>Notes for the doctor</b>	Treat symptomatically.
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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media**    The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

#### 5.2. Special hazards arising from the substance or mixture

**Specific hazards**                      The product is not flammable. The product is non-combustible.

#### 5.3. Advice for firefighters

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**Protective actions during firefighting**      No specific firefighting precautions known.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

**Personal precautions**      Avoid contact with skin and eyes. Wear protective clothing as described in Section 8 of this safety data sheet.

#### 6.2. Environmental precautions

**Environmental precautions**      Avoid generation and spreading of dust. Do not release into the environment.

#### 6.3. Methods and material for containment and cleaning up

**Methods for cleaning up**      Dry product - Use clean up methods that do not cause airborne dispersion, e.g. an industrial vacuum cleaner, or spray with a fine mist of water prior to shovelling up the resultant slurry.  
Wet product - Shovel up and place into plastic containers. Allow to harden before disposal.

#### 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**      Avoid handling which leads to dust formation. 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 and cool place. If stored correctly, as detailed above and used within the declared shelf life shown on the bag, the activity of the reducing agent\* will be maintained and this product will contain, when mixed with water, no more than 0.0002% (2ppm) soluble chromium (VI) of the total dry weight of cement. Use of this product beyond the declared shelf life may increase the risk of an allergic reaction.  
\*Added to control the level of soluble chromium (VI).

#### 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

##### **Cement**

Long-term exposure limit (8-hour TWA): WEL 3 mg/m<sup>3</sup>      dust

##### **Cement additive.**

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup>      respirable dust

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>      total inhalable dust

##### **Limestone**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>      inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup>      respirable dust

##### **quartz (respirable silica)**

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m<sup>3</sup>

##### **calcium oxide**

Long-term exposure limit (8-hour TWA): WEL 2 mg/m<sup>3</sup>

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### cement additive

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

### Tin sulphate

Long-term exposure limit (8-hour TWA): WEL 2 mg/m<sup>3</sup> as Sn

Short-term exposure limit (15-minute): WEL 4 mg/m<sup>3</sup> as Sn

### 2,-di-tert-butyl-p-cresol

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>

### aluminium powder

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

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 chemical splash goggles.

### Hand protection

It is recommended that chemical-resistant, impervious gloves are worn.

### Other skin and body protection

Wear suitable protective clothing as protection against splashing or contamination.

### Hygiene measures

Do not eat, drink or smoke when using this product. Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Provide eyewash station.

### Respiratory protection

Wear a suitable dust mask.

### 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	Powder.
Colour	Grey.
Odour	Slight.
Solubility(ies)	Slightly soluble in water.

### 9.2. Other information

Other information	None.
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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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### 10.2. Chemical stability

**Stability** Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None known.

### 10.4. Conditions to avoid

**Conditions to avoid** Protect from moisture.

### 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** May cause respiratory system irritation. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

**Ingestion** Only large quantities are likely to have adverse effects on human health.

**Skin contact** This product is strongly irritating. May cause serious chemical burns to the skin. May cause sensitisation by skin contact. In the event of any sensitisation symptoms developing, ensure further exposure is avoided.

**Eye contact** May cause serious eye damage. Corneal damage.

**Medical considerations** The following pre-existing or historic medical conditions of the worker may lead to an increased risk of adverse health effects following exposure to this product: Skin disorders and allergies.

## SECTION 12: Ecological Information

### 12.1. Toxicity

**Toxicity** No negative effects on the aquatic environment are known.

### 12.2. Persistence and degradability

**Persistence and degradability** The product contains mainly inorganic substances which are not biodegradable.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

**Mobility** The product hardens to a solid, immobile substance.

### 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.

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### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

**Disposal methods**                      Mix product with water, allow to harden, then dispose of according to local or national guidelines. 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**                                      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.



## RonaBond Flowable Micro Concrete

### SECTION 16: Other information

<b>Issued by</b>	sds@ronacrete.co.uk
<b>Revision date</b>	18/05/2015
<b>Revision</b>	1
<b>SDS number</b>	4690
<b>Risk phrases in full</b>	R38 Irritating to skin. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact.
<b>Hazard statements in full</b>	H228 Flammable solid. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H341 Suspected of causing genetic defects. H361 Suspected of damaging fertility or the unborn child. H372 Causes damage to organs through prolonged or repeated exposure. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.

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