

SAFETY DATA SHEET

Product: **MORTAR & RENDER**

Issue Date: **September 2022** Issue no: **1.5**

Page 1 of 3

TILlicOUNTRY QUARRIES

1. Identification of Substance / Preparation and Company / Undertaking

Substance name: **MORTAR & RENDER**

Company Details:

Tillicoultry Quarries Ltd
RWM House
Kilbagie, Alloa
Clackmannanshire FK10 4DY

Telephone: 01259 730481

Email: sales@tillicoultryquarries.com

Web: www.tillicoultryquarries.com

2. Hazard Identification

Classified as hazardous (irritant) in accordance with the Chemicals (Hazard Information and Packaging for Supply) Regulations.



Wet mortar or Render can cause serious alkali burns if in direct contact with skin or eyes.

Skin

Alkali burns, a form of skin ulceration, may result from contact with freshly mixed concrete.

Contact with strongly alkaline solutions such as concrete can initially cause nerve damage. Chemical burns may occur without the person being aware because they do not feel any pain.

Contact with wet cementitious mixes such as wet mortar or render can cause skin disease. Irritant contact dermatitis is caused by the combination of the wetness, alkalinity and abrasiveness of the ready-mixed concrete.

Allergic contact dermatitis may be caused by individual sensitivity to chromium compounds which may occur in cement.

Eyes

Wet concrete in contact with eyes can cause irritation, inflammation or serious alkali burns, which may lead to blindness.

Ingestion

Swallowing small amounts of fresh concrete, mortar and screed is unlikely to cause any significant reaction. Larger amounts can cause irritation of the stomach and intestines.

Inhalation

Wet mortar or render is not likely to create dust, but respirable dust may be released in the dry mixes or by the surface treatment and cutting or drilling of hardened product. If inhaled in excessive quantities over a prolonged period or extended period, respirable dust can constitute a long term health hazard.

Dusts containing Respirable Crystalline Silica (quartz) present a greater hazard. Long-term exposure to respirable dust can lead to respiratory system damage and disease. Respirable crystalline silica has been associated with the lung disease silicosis.

The quartz content of the product will vary, and is related to the type of aggregate used in the production of the concrete. Advice on the quartz content and other chemical information is available from the supplying unit.

3. Composition / Information on Ingredients

Mortar & Render is a mixture of:

- A cementitious material which may be cement.
- Fine aggregate.
- Water
- Admixtures or additives may be added to modify the properties of the mortar & Render. Pigments may be added to colour the product.

The proportions of the components will vary according to the required properties of the product. The resultant mixture is abrasive and alkaline.

4. First Aid Measures

Inhalation

If mortar or render dust is inhaled, remove to fresh air. If breathing difficulties or inflammation are experienced, seek medical attention.

Skin Contact

Where skin contact occurs with wet concrete, mortar and screed, either directly or through saturated clothing, the concrete must be washed off immediately with soap and water.

Where mixed mortar or render enters boots or gloves, or saturates clothing, the article should be removed immediately and washed before further use.

Eye Contact

Immediately and thoroughly irrigate with copious amounts of eye wash solution or clean water. Seek medical attention immediately.

Ingestion

Remove to fresh air. If person is conscious, rinse out mouth and give water to drink. Seek medical advice.

Product:	MORTAR & RENDER
Issue Date:	September 2022 Issue no: 1.5 Page 2 of 3

5. Fire Fighting Measures

Mortar or Render is non-flammable and is not combustible.

Suitable Extinguishing Media:
Not applicable.

Unsuitable Extinguishing Media:
Not applicable.

Special Exposure Hazards in Fire:
None.

Special Protective Equipment for Fire Fighters:
None.

6. Accidental Release Measures

Personal Precautions:
Avoid contact with skin and eyes. Wear impervious clothing, gloves and boots. Wear eye protection. See Section 8 for guidance on personal protective equipment. See Section 7 for guidance on handling the product.

Environmental Precautions:
Prevent dry or wet Mortar or Render from entering watercourses, ditches and drains.

Methods for Cleaning:
Clean up any spillage before the concrete hardens, using suction or mechanical removal methods.

7. Handling and Storage

Handling – Wet Mortar or Render:
Avoid skin and eye contact. Wet Mortar or Render can cause serious alkaliburns if in direct contact with skin or eyes. Contact with the substance may also cause skin disease by the combination of the wetness, alkalinity and abrasiveness of the mortar or render. Allergic contact dermatitis may be caused by individual sensitivity to chromium compounds which may occur in cement.
Do not sit or kneel on wet, un-hardened concrete without wearing the correct personal protective equipment.

Where mortar or render enters boots or gloves, or saturates clothing, the article should be removed immediately and washed before further use.
Refer to Section 8 for guidance on personal protection.

Handling – Dry Mortar & Render
Minimise creation of dust wherever possible.
Engineering control measures such as containment and local exhaust ventilation should be applied when airborne dust exposure levels are approached.

Storage:
Mortar & Render are stored dry in silos. However, the hardening process of the product can be delayed by the use of additions and/ or admixtures, extending the period during which the precautions given in this data sheet should continue to be taken and during which time access by unauthorised persons should be prevented.
Refer to the relevant Technical Data Sheet for the specific product.

8. Exposure Controls / Personal Protection

Take Measures to Prevent:

a) Direct skin or eye contact with fresh concrete. It is also important not to kneel or sit on the fresh concrete as harmful contact can occur through saturated clothing.

b) Inhalation of dust created by the surface treatment and cutting of hardened concrete which may contain quartz. If inhaled in excessive quantities over an extended period, respirable dust containing quartz can constitute a long-term health hazard.

Exposure Control Limits / Source:

Total Dust -	W.E.L.	10mg/m ³	8 hrs	T.W.A.
Respirable Dust -	W.E.L.	4mg/m ³	8 hrs	T.W.A.
Respirable Quartz Crystalline Silica SiO ₂	W.E.L.	0.1mg/m ³	8 hrs	T.W.A.

W.E.L. = Workplace Exposure Limit
T.W.A. = Time Weighted Average

Inhalation:
Avoid breathing dust.

Eyes, Skin & Hands:
S24/25 - Avoid contact with skin and eyes.
S36/ 37/ 39 - Wear suitable protective clothing, gloves and eye / face protection.

Control Measures:
Dust caused by cutting or drilling hardened concrete should be controlled by containment, suppression and extraction/ filtration where possible.

Respiratory Protection:
Suitable respiratory protection should be used to protect against inhalation of dust, and to ensure exposure is below the Workplace Exposure Levels given at the start of this section.

Hand Protection:
Impermeable gloves should be worn.

Eye Protection:
Goggles should be worn if there is a risk of product entering the eyes (including dust).

Skin Protection:
Overalls and/or long-sleeved jackets and full-length trousers should be worn to protect skin from contact with wet concrete. Outer clothing should be waterproof if contact with wet concrete is likely. Wear impermeable boots to protect feet. Safety wellington boots should be worn if working with wet product, with waterproof trousers pulled over them to help prevent the wet product entering the boots. If the product saturates clothing, or enters gloves or boots, remove the articles immediately and wash before wearing again. In addition to the above, the use of skin barrier cream and aftercare products is also recommended.



Product:	MORTAR & RENDER
Issue Date:	September 2022 Issue no: 1.5 Page 3 of 3

9. Physical and Chemical Properties

Appearance:	Grey, granular paste unless pigmented.
Odour:	Slight, earthy odour
pH:	Typically 10-14
Boiling Point / Range:	Not determined
Melting Point / Range:	Not determined
Flash Point:	Not applicable
Auto Flammability:	Not applicable
Flammability:	Not applicable
Explosive Properties:	Not applicable
Oxidising Properties:	Not applicable
Vapour Pressure:	Not applicable
Relative Density:	Above 2.0
Water Solubility:	Dependant on aggregate type
Fat Solubility:	Not determined

10. Stability and Reactivity

Conditions to Avoid: None **Materials to Avoid:** None

Hazardous Decomposition Products: None

11. Toxicological Information

Inhalation:

If inhaled over a prolonged or extended period, respirable dust from drilling or cutting hardened concrete, dry concrete, mortar and screed dust can lead to respiratory system damage and disease. Respirable crystalline silica has been associated with the lung disease silicosis.

Skin Contact:

Skin contact with wet mortar or render could result in serious alkali burns. Contact with the product may also cause skin disease by the combination of the wetness, alkalinity and abrasiveness. Allergic contact dermatitis may be caused by individual sensitivity to chromium compounds which may occur in cement. Skin contact with dry mortar or render dust is unlikely to cause harm with brief or occasional contact.

Eye Contact:

Wet mortar or render in contact with eyes can cause irritation, inflammation, or serious alkali burns, which may lead to blindness. Eye contact with dry mortar or render dust may cause transient irritation.

Ingestion:

Ingestion is very unlikely. Ingestion of large amounts may cause irritation of the stomach and intestines. Seek medical attention.

12. Ecological Information

Environmental Assessment:

When used and disposed of as intended, no adverse environmental effects are foreseen, and mortar or render should not pose a significant ecological hazard. Prevent wet mortar or render entering watercourses, ditches & drains.

13. Disposal Consideration

Safe Handling of Residues / Waste Product:

Hardened concrete is classed as non-hazardous and 'inert' but should be disposed of in accordance with local and national legal requirements. Hardened concrete can be readily recycled.

14. Transport Information

Special Carriage Requirements:

None – not classified as dangerous for transport.

15. Regulatory Information

Classification: **Irritant**

Risk Phrases:

- R34** - May cause burns.
- R38** - Irritating to the skin.
- R41** - Risk of serious damage to the eyes.
- R43** - May cause sensitisation by skin contact.



Safety Phrases:

- S2** – Keep out of reach of children.
- S24/25** - Avoid contact with skin and eyes.
- 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.

16. Other Information

Training Advice:

Wear and use of PPE.

Recommended Uses and Applications:

Industrial and construction applications.

Further Information:

Contact: mortarsandrenders@tillicoultryquarries.com

Key Data Used to Compile Data Sheet:

HSE Guidance Note EH40
PPE Regulations 2022
COSHH Regulations 2002
Environmental Protection Act 1990
HSE Crystalline Silica EH59

Further copies of this Safety Data Sheet may be obtained on request.

Prepared in accordance with Annex II of the REACH Regulation (EC) 1907/2006

Legal Notice

The information in this Safety Data Sheet was believed to be correct at the time of issue. However, no warranty is made or implied as to the accuracy or completeness of this information.

If you have purchased this product for supply to a third party for use at work, it is your duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet. If you are an employer, it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and any of the precautions which should be taken. This Safety Data Sheet does not constitute the user's own assessment of workplace risk. It is the user's sole responsibility to take all necessary precautions when using this product.