

Ready Mixed Concrete & Screeds

Material Safety Datasheet: DQ11 Issue 01/09



Glendinning

It is important that you or those working for you familiarise themselves with the information supplied on this Datasheet before handling, using or disposing of the product.

Identification of Substance & Company

Company: E & JW Glendinning Limited
Glentor
Ashburton
Newton Abbot
TQ13 7LF
Tel 01364 652601
Fax 01364 652978

Product: Ready Mixed Concrete,
Screeds including Speed Screed

Document: DQ11 Issue 01/09

Physical and Chemical Characteristics

Ready Mixed Concrete and Screeds are a mixture of aggregate, cement and water. Admixtures may be added to improve product handling characteristics or the properties of the hardened concrete. The resultant mixture is abrasive and alkaline.

The principal constituents of cement are calcium silicates, aluminates and sulphates. Small amounts of alkalis, lime and chlorides are also present. Additional constituents may also be present eg limestone, fly ash, granulated blast furnace slag.

Hazards

- Cement burn, a form of skin ulceration, may result from contact with freshly mixed concrete or screed.
- Irritant contact dermatitis is caused by the combination of the wetness, alkalinity and abrasiveness of the cement mixture within the product.
- Allergic contact dermatitis mainly caused by individual sensitivity to chromium compounds which may occur in cement. Contact with wet cement mixes such as concrete can cause skin disease.

- The surface treatment and cutting of hardened concrete can create dust which may contain quartz. If inhaled in excessive quantities over extended periods, respirable dust containing quartz can constitute a long term health hazard and may cause the development of silicosis or lung cancer.

Emergency Action – First Aid

Eye Contact

1. Irrigate immediately with copious amounts of clean water. Seek immediate medical attention.

Skin Contact

1. Immediately wash with copious amounts of clean water. Clothing contaminated by wet cement, concrete or screed should be removed and washed thoroughly before use.

Inhalation

1. If irritation occurs move the affected person into fresh air. If irritation or inflammation persists seek medical attention.

Ingestion

1. Wash out mouth and drink plenty of water. Do not induce vomiting. Seek medical advice if large amount is swallowed.

Precautions

The following precautions should always be taken:

- Direct skin contact with wet concrete or screeds should be avoided.
- It is also important not to kneel or sit on the wet materials as harmful contact can occur through saturated clothing.
- Inhalation of concrete dust should be avoided.

Protective Clothing

Protective clothing should be worn when handling wet concrete or screeds, particularly on the arms, hands, legs and feet eg long-sleeved clothing and gloves with full length trousers and impervious boots.

Respiratory protective equipment should be worn during the surface treatment or cutting of hardened concrete where dust is generated.

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Transportation and Waste Disposal

The carriage of concrete or screeds is not subject to hazardous substance conveyance regulations and vehicle labelling is not required. In the event of spillage, entry of material to water courses should be avoided.

Unused hardened concrete or screeds are inert but should be disposed of in accordance with local authority requirements. Keep out of the reach of children.

Storage

The hardening of concrete can be delayed, extending the period during which the precautions given above should continue to be taken and during which access by unauthorised person should be prevented.

Guidance

- EH40 – For detailed guidance on workplace exposure levels to constituent substances reference should be made to EH40 (HSE Guidance Note)

Notes

The purpose of this datasheet is to provide Health, Safety and Environmental guidance on the safe handling, use and disposal of Ready Mixed Concrete or Screed products supplied by E & JW Glendinning Limited. The information contained in this datasheet is correct at the date of writing, and applies only in relation to the supply of material referred to in the delivery docket to which this datasheet is attached and forms part. This datasheet should alert purchasers and/or users to the usual hazards in handling the supplied material when using it within the ordinary range of uses for which such material is normally supplied.

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