

Safety information

Material Safety Data Sheet FLOOR LEVELLING PRODUCTS

FLOOR LEVELLING PRODUCTS

Health and Safety Information In accordance with Regulation (EC) No 1907/2006 (REACH) as amended by Regulation (EU) No 453/2010

SECTION 1: IDENTIFICATION OF THE MIXTURE AND OF THE COMPANY

1.1 Product identifier	
Product name(s)	Ready To Use Mortars, Dry Silo Mortars, Coloured Mortars, Pointmaster Pressure Mortars, Bagged Mortar, Bagged Cement, RoadMaster Mortars & Concretes Cemrok Mortar, Cement & Concrete Repair and Post Fix Products, Cemrok Sprayed Concrete, Mix in the bag Floor leveller, Universal Concrete Mix, Postmix, Ultralight Postmix, Rapid Set Tile Adhesive Products & Grouts, Floor Levelling Compound, Damaged Brick Face Repair

1.2 Relevant identified uses of the mixture and uses advised against

Refer to Technical Data Sheet.

1.3 Details of the supplier of the safety data sheet

Tarmac Cement and Lime Ltd,
 T3 Trinity Park, Bickenhill Lane,
 Birmingham B37 7ES

Technical helpdesk: 0345 812 6232

Email: info-cement@tarmac.com

1.4 Emergency telephone

Emergency telephone number available during office hours **(08:30 - 16:00):**

Tel +44 (0)345 812 6232 (English Language only)

Emergency telephone number available outside office hours: **999**

SECTION 2: HAZARDS IDENTIFICATION

Irritating to eyes and skin. Risk of serious damage to eyes. May cause burns in the presence of moisture due to generation of strong alkaline solution of calcium hydroxide. May cause allergic dermatitis due to the sensitivity of an individual's skin to soluble chromium (VI) in the presence of moisture. Dust may cause irritation of the respiratory tract.

2.1 Classification of the mixture

2.1.1 According to Regulation (EC) No 1272/2008 (CLP)		
Hazard class	Hazard category	Hazard statements
Skin irritation	2	On the basis of test data
Serious eye damage/eye irritation	1	On the basis of test data
Skin sensitisation	1	On the basis of literature survey
Specific target organ toxicity single exposure respiratory tract irritation	3	On the basis of literature survey

2.1.2 Classification according to Directive 1999/45/EEC

Xi irritant

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) 1272/2008:

Hazard pictograms



Signal word

DANGER

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Hazard statements

- H318 Causes serious eye damage
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H335 May cause respiratory irritation

Precautionary statements

- P102: Keep out of reach of children
P280: Wear protective gloves/protective clothing/eye protection/face protection.
P305+P351+P338+P310:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor/physician.
P302+P352+P333+P313:
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
P261+P304+P340+P312:
Avoid breathing dust/fumes, gas, mist, vapours, spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician.
P501: Dispose of contents/container to: Harden by application of water and dispose of as concrete waste.

2.2.2 Labelling according to Directive 1999/45/EEC:

Hazard pictograms



Xi

Signal word

Xi - irritant

Risk phrases

- R37/38: Irritating to respiratory system and skin
R41: Risk of serious damage to eyes
R43: May cause sensitisation by skin contact

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- RS2: Keep out of reach of children
S22: Do not breathe dust
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.

2.3 Other hazards

Long term exposure to dust can lead to the development of lung disease during mechanical cutting, grinding or sanding of the set product.

SECTION 3:

COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Can contain calcium silicates, Silica sands, PFA, water, aluminates and ferro aluminates, with calcium carbonate. Small quantities of ferrous and calcium sulphate, lime and alkalis, together with trace amounts of chromium compounds. Coloured material will contain synthetic iron oxide pigments Concrete products contain various sized aggregates.

Hazardous Ingredient - calcium hydroxide $\text{Ca}(\text{OH})_2$ generated on contact with water. Hexavalent chromium salts dissolve in water.

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Under CLP EC 1272/2008						
Substance	%	Reach Reg No.	EC No.	CAS No.	Classification Regulation (EC) 1272/2008	
					CLP Hazard Category	Hazard Statement
Ordinary Portland cement	5-30%	N/A	266-043-4	65997-15-1	(1) STOT SE 3 (2) Skin irritation 2 (3) Serious eye damage/eye irritation 1 (4) Skin sensitization	(1) H335: May cause skin irritation (2) H315: Causes skin irritation (3) H318: Causes serious eye damage. (4) H335: May cause and allergic skin reaction.

Under DPD EC 1999/45						
Substance	%	Reach Reg No.	EC No.	CAS No.	Classification Regulation (EC) 1999/45	
					Symbol	Hazard Statement
Ordinary Portland cement	5-30%	N/A	266-043-4	65997-15-1	Xi irritant	R37/38 - Irritating to respiratory system and skin. R41 - Risk of serious damage to eyes. R43 - May cause sensitization by skin contact.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

4.1.1 Routes of exposure

Inhalation (dust)

Move to fresh air. Dust in throat and nasal passages should clear spontaneously. Seek medical attention if irritation persists or later develops or if discomfort, coughing or other symptoms persist.

Eye contact: Speed is essential. Immediately wash eyes with plenty of eyewash solution or running water, holding eyelids apart for 15 minutes. Do not rub eyes in order to avoid possible cornea damage as a result of mechanical stress. Always seek further specialist medical/eye specialist attention to check that all particles have been removed.

Skin contact: Remove affected clothing, footwear, watches, jewellery etc. Wash skin with soap and water immediately. Wash contaminated clothing before re-use. Seek medical attention if irritation occurs.

Ingestion: Immediately rinse mouth and drink plenty of water. Do not induce vomiting. Seek immediate medical advice if person becomes uncomfortable. Show the container or label used.

4.2 Most important symptoms and effects, both acute and delayed

Eyes: Eye contact with cement (dry or wet) may cause serious and potentially irreversible injuries.

Skin: Product may have an irritating effect on moist skin (due to sweat or humidity) after prolonged contact or may cause contact dermatitis after repeated contact. Prolonged skin contact with wet mortar or concrete may cause serious burns because they develop without pain being felt (for example when kneeling in wet product even when wearing trousers).

Inhalation: Irritating to the respiratory tract in high concentration.

Environment: Under normal use, this product is not hazardous to the environment.

4.3 Indication of any immediate medical attention and special treatment needed

When contacting further medical advise. Show container, label or this SDS sheet.

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SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing media

5.1.1 Suitable extinguishing media

The product is not combustible. Use a dry powder, foam or CO₂ fire extinguisher to extinguish the surrounding fire. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.1.2 Unsuitable extinguishing media

None identified.

5.2 Special hazards arising from the substance or mixture

None identified.

5.3 Advice for fire-fighters

None identified.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Wear suitable protective equipment (see section 8).

6.1.2 For emergency responders

N/A.

6.2 Environmental precautions

Do not wash product down sewage and drainage systems or into bodies of water (e.g. streams).

6.3 Methods and material for containment and cleaning up

Dry product

Use cleanup methods such as vacuum cleaning-up or vacuum extraction fitted with EPA/HEPA air filters which do not cause airborne dispersion. Never use compressed air. Alternatively, wipe-up the dust by mopping, wet brushing or by using water spray or hoses (fine mist to avoid dust becoming airborne) and remove slurry. If not possible, remove by slurring with water (see wet product). If only dry cleaning by brushing can be done, ensure all appropriate personnel wear correct PPE including dust mask and eye protection at all times (see section 8). Avoid inhalation of dust and place in a container and dispose of as detailed in section 13.

Wet product

Clean up wet material and place in container or controlled location. Allow material to dry and solidify before disposal as detailed in section 13.

6.4 Reference to other sections

For more information on exposure controls/personal protection or disposal considerations, please check section 8 and 13 and the Appendix of this Safety Data Sheet.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Do not ingest. Avoid contact with skin. Avoid contact with eyes. Wear protective equipment (refer to section 8 of this safety data sheet). Avoid generating dust.

7.1.2 Advice on general occupational hygiene

General occupational hygiene measures are required to ensure safe handling of the product. These measures involve good personal and housekeeping practices. Wash hands after use if contaminated. Avoid wearing contaminated clothing. Do not handle or store near food and beverages or smoking material. In dusty environment, wear dust mask, protective goggles and gloves.

7.2 Conditions for safe storage, including any incompatibilities

Bulk materials should be stored in silos that are waterproof. Packed products should be stored in unopened bags clear of the ground in cool, dry conditions and protected from excessive draught, excesses in temperatures in order to avoid degradation of quality. Bags should be stacked in a stable manner. Do not use aluminium containers due to incompatibility of the materials.

7.3 Specific end use(s)

No additional information for the specific end uses.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Exposure limit values

(Workplace Exposure Limits (WEL))

WEL 8 hr Time Weighted Average (TWA):

- Total inhalable dust 10 mg/m³
- Respirable dust 4mg/m³
- Crystalline Silica (respirable) 0.1mg/m³

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Measures to reduce generation of dust and to avoid dust propagating in the environment such as regular housekeeping, exhaust ventilation and dry clean-up methods which do not cause airborne dispersion.

8.2.2 Individual protection measures such as personal protection equipment



Eye/face protection

Wear approved glasses or safety goggles according to EN 166 when handling dry or wet cement to prevent contact with eyes.



Skin protection

Overalls and/or long-sleeved jackets and full length trousers should be worn to protect skin from contact with wet products. Outer clothing should be waterproof if contact with wet product 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 product entering the boots. If the product saturates clothing, or enters gloves or boots, remove the articles immediately and wash before wearing again.



Respiratory protection

When a person is potentially exposed to dust levels above exposure limits, an appropriate respirator must be used dependant on expected dust levels.

Thermal hazards

The substance does not represent a thermal hazard, thus special consideration is not required.

Environmental hazards

Environmental Exposure Control Not relevant unless large volume of product enter the water course.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:

Wet Product - a mixture of sand, cementitious materials (aggregates added to concrete products) and water in a semi-solid state. Can be various colours dependant on added pigments.

Dry Product - a mixture of sand, cementitious materials (aggregates added to concrete products) in a powder form. Can be various colours dependant on added pigments.

Odour:

Slight, earthy odour

Odour threshold:

N/A

pH:

11-13.5, (20 °C in water, water solid ratio 1:2)

Melting point:

1250 (typical)

Boiling point:

Not determined

Flash point:

N/A

Evaporation rate:

N/A

Flammability:

Non flammable

Exposure limits:

Non exposure

Vapour pressure:

N/A

Vapour density:

0 at 20 °C

Relative density:

3.0 (typical)

Solubility in water:

Some components sparingly soluble

Partition

coefficient:

N/A

Auto ignition

temperature:

N/A

Decomposition

temperature:

N/A

Viscosity:

N/A

Oxidising

properties:

No oxidising properties

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SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

When mixed with water, will harden into a stable mass that is not reactive in normal environments.

10.2 Chemical stability

Stable product under recommended storage and handling conditions.

10.3 Possibility of hazardous reactions

This product does not cause hazardous reactions.

10.4 Conditions to avoid

Dry Products – avoid humid conditions which may cause lump formation and loss of product quality.

10.5 Incompatible materials

Acids, ammonium salts, aluminium or other non-noble metals. Uncontrolled use of aluminium powder in wet product should be avoided as hydrogen is produced.

10.6 Hazardous decomposition products

Hazardous Decomposition Products: This product does not decompose into any hazardous products.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on toxicological effects	
Toxicity endpoints	Outcome of the effects assessment
Acute toxicity	Based on available data, the classification criteria are not met.
Skin corrosion/irritation	Category 2 When in contact with wet skin may cause thickening, cracking or fissuring on the skin. Prolonged contact in combination with abrasion may cause severe burns.
Serious eye damage/irritation	Category 1 Direct contact may cause corneal damage by mechanical stress, immediate or delayed irritation or inflammation. Direct contact by large amounts may cause effects ranging from moderate irritation to chemical burns and blindness.
Respiratory or skin sensitisation	Category 1 Some individuals may develop eczema upon exposure by either the high pH which induces irritant contact dermatitis after prolonged contact, or by an immunological reaction to soluble Cr(VI) which elicits allergic contact dermatitis. The response may appear in a variety of forms ranging from a mild rash to severe dermatitis. If the cement contains a soluble Cr (VI) reducing agent and as long as the period of effectiveness of the agent is not exceeded, a sensitising effect is not expected. There is no indication of sensitisation of the respiratory system.
Repeated dose toxicity	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Toxicity for reproduction	Based on available data, the classification criteria are not met.
STOT - single exposure	Category 3 Dust exposure may irritate the throat and respiratory tract. Coughing, sneezing, and shortness of breath may occur following exposures in excess of occupational exposure limits.
STOT - repeated exposure	There is an indication of Chronic Obstructive Pulmonary Disease. The effects are acute and due to high exposures. No chronic effects or effects at low concentrations have been observed.
Aspiration hazard	Not applicable as this products are not used as an aerosol.

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**Information on likely routes of exposure:**

Contact with skin, eyes, ingestion and dust inhalation.

Symptoms relating to the physical, chemical and toxicological characteristics:

Dust exposure may irritate the throat and respiratory tract. Coughing, sneezing, and shortness of breath may occur following exposures in excess of occupational exposure limits.

When in contact with wet skin may cause thickening, cracking or fissuring on the skin. Prolonged contact in combination with abrasion may cause severe burns. Some individuals may develop eczema upon exposure by either the high pH which induces irritant contact dermatitis after prolonged contact, or by an immunological reaction to soluble Cr(VI) which elicits allergic contact dermatitis.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Contact with skin, eyes, ingestion and dust inhalation.

Information on likely routes of exposure:

Delay in treating eye contact can lead to serious and permanent eye damage. Long term exposure to dust above the exposure limits can lead to lung disease.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity**

The product is not hazardous to the environment. The addition of large amounts of the product to water may however, cause a rise in pH and may, therefore, be toxic to aquatic life under certain circumstances.

12.2 Persistence and degradability

Not relevant as this product is an inorganic material. After hardening, it presents no toxicity risks.

12.3 Bioaccumulative potential

Not relevant as this product is an inorganic material. After hardening, it presents no toxicity risks.

12.4 Mobility in soil

Not relevant as this product is an inorganic material. After hardening, it presents no toxicity risks.

12.5 Results of PBT and vPvB assessment

Not relevant as this product is an inorganic material. After hardening, it presents no toxicity risks.

12.6. Other adverse effects

No other adverse effects are identified.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods****Product - that has exceeded its shelf life (indicted on packaging)**

(and when demonstrated that it contains more than 0.002% Cr (VI): shall not be used/sold other than for use other than for use in controlled closed and totally automated processes or should be recycled or disposed of according to local legislation or treated again with reducing agent.

Product - unused residue or dry spillage

Pick up dry unused residue or dry spillage as is (refer to Section 6). Mark up containers. Possibly reuse depending upon shelf life considerations and the requirements to avoid dust exposure. In case of disposal, harden with water and dispose according to section 6.3 above.

Product - slurries

Allow to harden, avoid entry in sewerage and drainage systems or into bodies of water. Dispose of as hardened product as concrete waste. This is not classed as a dangerous waste.

LoW/EWC entries:

16 03 04 - inorganic wastes containing no dangerous substances.

17 01 01 - construction and demolition wastes - concrete.

Packaging

Completely empty and clean packaging and process in accordance with local legislation.

LoW/EWC entry:

15 01 01 - waste paper and cardboard packaging.

15 01 02 - plastic packaging.

If packaging is contaminated: 20 03 01 - mixed municipal waste.

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SECTION 14: TRANSPORT INFORMATION

These products are not classified as hazardous for transport. No special precautions are needed apart from those mentioned under Section 8.

14.1 UN number

Not relevant.

14.2 UN proper shipping name

Not relevant.

14.3 Transport hazard class(es)

Not relevant.

14.4 Packing group

Not relevant.

14.5 Environmental hazards

Not relevant.

14.6 Special precautions for user

Not relevant.

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

Not relevant.

SECTION 15: REGULATORY INFORMATION

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

The product contains Ordinary Portland Cement which is a mixture that is not subject to registration according to REACH. Cement clinker is exempt from registration (Art2.7(b) and Annex V.10 of REACH).

Workplace Exposure Limits – HSE Guidance note EH40. Control of Substances Hazardous to Health latest Regulations.

The marketing and use of these products is subject to a restriction on the content of soluble Cr(VI) (REACH Annex XVII point 47 Chromium VI compounds).

15.2 Chemical Safety Assessment

A chemical safety assessment has not been carried out for this substance.

SECTION 16: OTHER INFORMATION

16.1 Hazard statements

- H318 Causes serious eye damage
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H335 May cause respiratory irritation

16.2 Precautionary statements

- P102: Keep out of reach of children
- P280: Wear protective gloves/protective clothing/eye protection/face protection.
- P305+P351+P338+P310:
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor/physician.
- P302+P352+P333+P313:
IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
- P261+P304+P340+P312:
Avoid breathing dust/fumes, gas, mist, vapours, spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTRE or doctor/physician.
- P501: Dispose of contents/container to:
Harden by application of water and dispose of as concrete waste.

16.3 Risk phrases

- R37/38: Irritating to respiratory system and skin
- R41: Risk of serious damage to eyes
- R43: May cause sensitisation by skin contact

16.4 Safety phrases

- RS2: Keep out of reach of children
- S22: Do not breathe dust
- 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.
- S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.
- S46: If swallowed, seek medical advice immediately and show this container or label.

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16.5 Abbreviations

STEL	Short-term exposure limit
TWA	Time-Weighted Average
vPvB	Very persistent, very bio-accumulative chemical

16.6 Key literature references

Suppliers; Safety Data Sheets
In-house data files
HSE Guidance Note EH40
Supplier's safety data sheets
PPE Regulations
COSHH Regulations
Environmental Protection Act
European Cement Association - CEMBUREAU.

16.7 Revision

H315: Causes skin irritation
H318: Causes serious eye damage
H317: May cause an allergic skin reaction
H335: May cause respiratory irritation

16.8 Training advice

Version Number: 1
Date Prepared: 26/03/2013
Supersedes; N/A
Nature of Revision - This version produced in reference to Annex II of the REACH Regulation (EC) 1907/2006 as amended by Regulation 453/2010.

16.9 Disclaimer

Although we try to ensure that the information in this publication is accurate, it is not intended as technical advice applicable to your particular circumstances and we accept no liability if you use it in this way. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. The advice shown on this sheet is given as a guide to good practice but Tarmac Building Products Ltd. can accept no responsibility for any loss, damage or injury howsoever caused in following it. This version of the SDS supersedes all previous versions.

Appendix: Exposure scenarios

N/A.

For more details contact:
customerservice@tarmac.com

The information given in this technical data sheet is based on our current knowledge and is intended to provide general notes on our products and their uses. Tarmac endeavour to ensure that the information given is accurate, but accept no liability for its use or its suitability for particular application because of the product being used by the third party without our supervision. Any existing intellectual property right must be observed.

DISCLAIMER

This material safety data sheet (MSDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this MSDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this MSDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the MSDS supersedes all previous versions.