



SECTION 1: IDENTIFICATION OF THE MIXTURE AND COMPANY

Product identifier	ROKAZ C2 - High Strength Tile Adhesive
Classification	Cementitious tile adhesive, EN 12004-1 type C2
Relevant use	Improved high-performance cementitious tile adhesive (C2) for installing ceramic and porcelain tiles with low, medium, and high water absorption on interior and exterior walls and floors. It provides enhanced adhesion strength and is suitable for conventional, stable cement-based substrates.
Supplier	Emdad Company LLC - ROKAZ Dry Mortar Products Tripoli, Libya Website: rokaz.com.ly
Emergency telephone	To be assigned before commercial issue.

Document status

This is a draft SDS prepared for technical and regulatory review. The final issue must be verified against the approved product formula, raw-material supplier SDSs, national requirements and the assigned emergency contact details.





SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the mixture

- **Eye Dam. 1, H318:** Causes serious eye damage.
- **Skin Irrit. 2, H315:** Causes skin irritation.
- **Skin Sens. 1B, H317:** May cause an allergic skin reaction.
- **STOT SE 3, H335:** May cause respiratory irritation.

2.2 Label elements

Signal word: Danger

- Wear protective gloves, protective clothing, respiratory protection and eye protection.
- Avoid breathing dust and wash thoroughly after handling.
- If in eyes, rinse cautiously with water for several minutes and seek immediate medical attention.



SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component	CAS / EC	Classification	Provisional concentration
Portland cement, chemicals	CAS 65997-15-1 EC 266-043-4	Eye Dam. 1 H318; Skin Irrit. 2 H315; Skin Sens. 1 H317; STOT SE 3 H335	10-50%
Graded mineral aggregates and fillers	Mixture	Not classified in the supplied form; respirable dust controls apply.	Balance
Functional additives	Proprietary mixture	To be confirmed from final raw-material SDSs.	<10%

The exact composition and concentration ranges must be reconciled with the approved production formula before this SDS is issued.



SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation

Move the affected person to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if coughing, breathing difficulty or irritation persists.

Skin contact

Remove contaminated clothing and footwear. Wash the affected skin thoroughly with plenty of water and neutral soap. Obtain medical advice if irritation, rash or sensitisation develops.

Eye contact

Immediately rinse cautiously with clean lukewarm water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing and obtain urgent medical attention.

Ingestion

Rinse mouth. Do not induce vomiting. Give water in small amounts if the person is conscious. Seek medical advice if unwell.

4.2 Most important symptoms and effects

- Severe eye irritation or damage from wet or dry product.
- Skin dryness, irritation, cracking or allergic reaction.
- Respiratory irritation after dust inhalation.
- Gastrointestinal irritation if swallowed.

4.3 Immediate medical attention

Treat symptomatically. Show this SDS or the product label to medical personnel.



SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

The product is not flammable under normal conditions. Use extinguishing media appropriate for the surrounding fire. Water spray, foam, dry chemical or carbon dioxide may be used as appropriate.

5.2 Special hazards

The dry mixture is not explosive and does not support combustion. Thermal decomposition of packaging or organic additives may generate carbon monoxide, carbon dioxide and irritating fumes.

5.3 Advice for firefighters

Use suitable protective clothing and self-contained breathing apparatus when required by the surrounding fire conditions. Prevent contaminated firefighting water from entering drains or watercourses.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions

Avoid generating or breathing dust. Wear eye protection, gloves, work clothing and suitable particulate respiratory protection. Keep unauthorised personnel away.

6.2 Environmental precautions

Prevent the product from entering drains, surface water and groundwater. Wet product may raise pH.

6.3 Containment and cleaning

Collect dry material mechanically using methods that minimise dust. Place in labelled containers for reuse or disposal. Do not use compressed air for cleaning.



SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

- Use in adequately ventilated areas and avoid dust formation.
- Avoid contact with skin and eyes.
- Do not eat, drink or smoke while handling the product.
- Wash hands and exposed skin after use and before breaks.
- Use safe manual-handling practices for 20 kg bags.

7.2 Conditions for safe storage

Condition	Requirement
Storage area	Cool, dry, covered and well ventilated.
Packaging	Keep bags closed and protected from moisture.
Temperature	Recommended +5°C to +40°C.
Incompatibilities	Keep away from acids, water and foodstuffs.
Stacking	Store on sound pallets and avoid unstable stacks.

7.3 Specific end use

Professional installation of ceramic and/or porcelain tiles as described in the approved technical data sheet.



SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Substance / dust fraction	Indicative occupational exposure reference
Inhalable nuisance dust	10 mg/m ³ (8-hour TWA; verify applicable national limit)
Respirable dust	4 mg/m ³ (8-hour TWA; verify applicable national limit)
Respirable crystalline silica	Apply the applicable national occupational exposure limit and minimise exposure.

8.2 Engineering controls

Provide local exhaust ventilation or general ventilation where dust may be generated. Use closed transfer and dust-collection systems where practical. Maintain good housekeeping.

MASK

Respiratory

Use a suitable particulate respirator when ventilation is insufficient or dust exposure may exceed limits.

GLOVE

Hands

Wear alkali-resistant protective gloves. Replace damaged or contaminated gloves.

EYE

Eyes

Wear sealed safety goggles. Use a face shield where splashing of wet product is possible.



SECTION 8: PERSONAL PROTECTION - CONTINUED

Body protection

Wear long-sleeved work clothing and closed, slip-resistant safety footwear. Remove contaminated clothing and wash before reuse.

Hygiene measures

- Provide eyewash facilities and access to clean running water.
- Do not take contaminated clothing into eating areas.
- Use barrier cream where appropriate; barrier cream is not a substitute for gloves.
- Wash thoroughly after handling.

Environmental exposure controls

Use work practices that prevent uncontrolled discharge of dust or wet cementitious material. Collect residues and packaging for appropriate disposal.

Recommended emergency equipment

Equipment	Recommended provision
Eyewash station	Accessible near mixing and packaging areas.
Emergency shower	Recommended for manufacturing and bulk-handling operations.
Spill collection tools	Industrial vacuum with suitable filtration, shovel and sealable containers.
First-aid kit	Clearly marked and regularly inspected.



SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Information
Physical state	Solid powder
Color	Grey
Odour	Characteristic / low odour
pH	Alkaline when mixed with water; exact value to be confirmed.
Bulk density	To be confirmed by production quality control.
Solubility	Partially miscible/reactive with water; forms an alkaline paste.
Flash point	Not applicable
Flammability	Not flammable
Explosive properties	Not explosive under normal handling conditions
Oxidising properties	Not oxidising
VOC content	Expected 0% by weight for the dry powder; verify final formula.
Particle characteristics	Fine mineral powder; avoid inhalation of airborne dust.

Physical-property values that depend on the final formula and raw materials must be completed after production validation.



SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Reacts with water to form an alkaline cementitious paste that hardens over time.

10.2 Chemical stability

Stable under recommended dry storage and handling conditions.

10.3 Possibility of hazardous reactions

No hazardous polymerisation is expected. Contact with incompatible acids may cause heat generation and release of irritating vapours.

10.4 Conditions to avoid

- Moisture and uncontrolled contact with water during storage.
- Excessive heat, damaged packaging and prolonged exposure to humid air.
- Dust accumulation and dispersion.

10.5 Incompatible materials

Acids, ammonium salts, reactive metals and strong oxidising agents. Verify compatibility of any cleaning chemical.

10.6 Hazardous decomposition products

No hazardous decomposition products are expected under normal use. Fire involving packaging or additives may generate carbon monoxide, carbon dioxide and irritating fumes.



SECTION 11: TOXICOLOGICAL INFORMATION

Acute toxicity

The mixture is not expected to meet acute toxicity classification criteria based on available component information. Ingestion may cause throat and gastrointestinal irritation.

Skin corrosion / irritation

Causes skin irritation. Prolonged or repeated contact with wet cementitious material may cause alkaline burns, dermatitis or cracking.

Serious eye damage / irritation

Causes serious eye damage. Both dry dust and wet paste may produce severe irritation or injury.

Respiratory or skin sensitisation

May cause an allergic skin reaction in susceptible individuals due to trace chromate or other sensitising constituents. Dust may irritate the respiratory tract.

Carcinogenicity and chronic exposure

Repeated occupational exposure to respirable crystalline silica dust can cause silicosis and may increase lung-cancer risk. Control dust exposure in accordance with applicable occupational requirements.

STOT - single exposure

May cause respiratory irritation.



SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

The dry mixture is not classified as hazardous to the environment based on available information. Large releases of wet product may increase water pH and adversely affect aquatic organisms.

12.2 Persistence and degradability

Inorganic mineral components are not biodegradable. Organic additives are present at low levels and should be assessed against supplier data.

12.3 Bioaccumulative potential

Significant bioaccumulation is not expected for the mineral components.

12.4 Mobility in soil

The dry powder may disperse as dust. When mixed with water it reacts and hardens, reducing mobility.

12.5 PBT / vPvB assessment

The final assessment must be confirmed from the approved formulation and supplier SDSs. The principal mineral components are not expected to meet PBT/vPvB criteria.

12.6 Other adverse effects

Avoid uncontrolled release to drains, soil, groundwater and surface water.



SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

- Reuse uncontaminated dry product where technically possible.
- Allow mixed residues to harden before disposal, where permitted.
- Do not discharge dry powder or wet product into drains or watercourses.
- Dispose of waste through an authorised waste contractor in accordance with local requirements.

Packaging

Empty bags completely. Contaminated packaging should be handled as product waste. Clean packaging may be recycled where a suitable collection system exists.

Waste classification

Assign the applicable national or European waste code based on the origin and condition of the waste. Potential reference categories may include construction materials or cement-based waste; confirmation is the responsibility of the waste producer.

Disposal requirements vary by jurisdiction. The final SDS must cite the applicable Libyan and export-market requirements before issue.



SECTION 14: TRANSPORT INFORMATION

Transport item	Road / Rail (ADR/RID)	Sea (IMDG)	Air (IATA/ICAO)
UN number	Not regulated	Not regulated	Not regulated
Proper shipping name	Not applicable	Not applicable	Not applicable
Transport hazard class	Not applicable	Not applicable	Not applicable
Packing group	Not applicable	Not applicable	Not applicable
Environmental hazard	No	No	No

Special precautions

Transport in closed, dry packaging. Protect bags from moisture, tearing and unstable stacking. Control dust if packaging is damaged.

Bulk transport

Not intended for bulk transport under MARPOL Annex II or the IBC Code in the supplied bagged form.



SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations

This draft has been structured with reference to the 16-section SDS format used under REACH Annex II / Commission Regulation (EU) 2020/878 and CLP classification terminology. It does not constitute confirmation of compliance in Libya, the European Union or any export market.

Chemical safety assessment

A mixture-specific chemical safety assessment has not been completed for this draft.

Required pre-issue review

- Confirm the final formula and component concentration ranges.
- Obtain and review current SDSs for cement, aggregates and all additives.
- Confirm chromium(VI) control and shelf-life requirements where applicable.
- Confirm national occupational exposure limits and waste regulations.
- Assign supplier contact and emergency telephone details.
- Confirm label pictograms, precautionary statements and language requirements.



SECTION 16: OTHER INFORMATION

Hazard statement text

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

Training advice

Personnel should receive training on dust control, safe bag handling, PPE use, first aid and spill response before using the product.

Revision information

Document	Edition	Status
ROKAZ C2 Safety Data Sheet	01.26	Draft for technical and regulatory review

Disclaimer

The information in this draft is based on generic cementitious tile-adhesive hazards and the reference documents provided. It is not a substitute for formulation-specific regulatory assessment. Emdad Company LLC must approve the final formulation, test data, supplier information, emergency contact, national compliance and issue control before publication or supply.

End of draft Safety Data Sheet - ROKAZ C2