

FX-263 Rapid-Hardening Vertical/Overhead Repair Mortar

SAFETY DATA SHEET



1. Identification

Product Identification

Product Identifier: FX-263
Recommended Use: FX-263 is a rapid-hardening vertical/overhead repair mortar for use for the maintenance of concrete.
Use Restrictions: For industrial use only. To ensure proper installation, use according to package directions. Complete application instructions can be found in Simpson Strong-Tie catalogs or online at strongtie.com.

Company Identification

Company: Simpson Strong-Tie Company Inc.
Address: 5956 W. Las Positas Blvd.
Pleasanton, CA 94588
Phone: 1-800-999-5099
Website: www.strongtie.com
Emergency: 1-800-535-5053 (US/Canada)
1-352-323-3500 (International)

For most current SDS, please visit our website at www.strongtie.com/sds

2. Hazard Identification

General Information

FX-263 Rapid-Hardening Vertical/Overhead Repair Mortar is a ready-to-use, single component, solid product. It has been assessed according to the Globally Harmonized System (GHS). This product is assumed to carry its hazards until it is fully set. The set product is dark gray in color and can be considered nonhazardous. This Safety Data Sheet covers hazards and responses for the safe use and handling of FX-263.

GHS Classification

Classification according to HazCom2012 (GHS)

Physical Hazards:	Not Classified		
Health Hazards:	Skin Corrosion/Irritation	Category 1	H314: Causes severe skin burns and eye damage
	Serious Eye Damage/Irritation	Category 1	H318: Causes serious eye damage
	Sensitization, Skin	Category 1	H317: May cause an allergic skin reaction
	Carcinogenicity	Category 1A	H350: May cause cancer
	STOT, Single Exposure	Category 3	H335: May cause respiratory irritation
STOT, Repeated Exposure	Category 2	H373: May cause damage to organs (lungs)	
Environmental Hazards:	Not Classified.		

Main Symptoms: Damage to the eyes and skin. Symptoms include redness, itching, burning, tearing, swelling, and blurred vision. May cause rash/allergic reaction to the skin. May cause shortness of breath or other respiratory distress/irritation. Long term exposure may cause chronic effects.

GHS Label Elements



Contains: Portland Cement, CSA Cement, Crystalline Silica (Quartz)
Signal Word: **DANGER!**
Hazard Statements:
H314: Causes severe skin burns and eye damage.
H318: Causes serious eye damage.
H317: May cause an allergic skin reaction.
H350: May cause cancer.
H335: May cause respiratory irritation.
H373: Causes damage to organs (lungs) through prolonged or repeated exposure.
Precautionary Statements:
Prevention: P201: Obtain special instructions before use.

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	P202:	Do not handle until all safety precautions have been read and understood.
	P233:	Keep container tightly closed.
	P260:	Do not breathe dust, fumes, or vapors.
	P264:	Wash hands thoroughly after handling.
	P270:	Do not eat, drink, or smoke when using this product.
	P271:	Use only outdoors or in a well-ventilated area.
	P272:	Contaminated clothing should not be allowed out of the workplace.
	P280:	Wear protective gloves/protective clothing/eye protection/face protection.
Response:	P301+P330+P331:	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P303+P361+P353:	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
	P333+P313:	If skin irritation or rash occurs: Get medical advice/attention.
	P363:	Wash contaminated clothing before reuse.
	P304+P340:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
	P312:	Call a poison center/doctor if you feel unwell.
	P305+P351+P338:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P337+P313:	If eye irritation persists: Get medical advice/attention.
	P308+P313:	If exposed or concerned: Get medical advice/attention.
Storage:	P403+P235:	Store in a well-ventilated place. Keep cool.
	P405:	Store locked up.
Disposal:	P501:	Dispose of contents/container in accordance with local/regional regulations.

Supplemental Label Information: None known.

Hazards Not Otherwise Classified (HNOC)

OSHA Hazard:	Combustible Dust
Hazard Statement:	Can form explosive air-dust mixtures, avoid creating dust.
Precautionary Statement:	Do not allow dust to build up on

3. Composition Information

General Information

This product is a mixture. Hazardous ingredients for each component are listed below. May include other nonhazardous ingredients. May include other trace ingredients, see Section 15.

List of abbreviations and symbols:

Classification: Globally Harmonized System Classifications

The full text for H-phrases is displayed in section 16. All concentrations are in percent by weight unless otherwise noted.

Composition – All concentrations are in percent by weight unless otherwise indicated.

Chemical Name	Weight %	CAS Number	EC Number
Crystalline Silica, Quartz Classifications: Carc. 1A: H350, STOT RE 2: H373	50-65	14808-60-7	238-878-4
Portland Cements Classifications: Skin Corr. 1: H314, Eye Dam. 1: H318, Skin Sens. 1: H317, Carc. 1: H350, STOT SE 3: H335	5-30	65997-15-1	266-043-4
CSA Cement Classifications: Skin Corr. 1: H314, Eye Corr. 1: H318, Skin Sens. 1: H317, Carc. 1: H350, STOT SE: H335	10-20	93662-00-4	---

4. First-Aid Measures

General Information

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If exposed or concerned: Get medical advice/attention. Wash contaminated clothing before reuse.

Routes of Exposure

Eye Contact: Immediately flush eyes with plenty of cool water for at least 15 minutes while holding the eyes open. Remove contact lenses if present and easy to do. If you experience redness, burning,

Skin Contact:

blurred vision, or swelling **consult a physician immediately.**

Ingestion:

Remove contaminated clothing and product, immediately wash affected area with soap and water. Do not apply greases or ointments. If rash or irritation occurs **consult a physician.**

Inhalation:

Rinse mouth immediately. Do not induce vomiting. **Consult a physician.**

Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, **consult a physician.**

Most Important Symptoms

Corrosive effects. Symptoms include itching, burning, redness and tearing. Permanent eye damage, including blindness could result. Discomfort in the chest, shortness of breath, coughing. Can cause burns on skin.

5. Fire-Fighting Measures

Suitable Extinguishing Media:

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Additional Information:

Can form explosive air-dust mixtures, avoid creating dust.

Hazards during Fire-Fighting:

During a fire, gases hazardous to health may be formed.

Fire-Fighting Procedures:

Use standard fire-fighting procedures and consider the hazards of other involved materials. In case of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn. Move containers from fire area if you can do so without risk. Cool containers with flooding quantities of water until well after fire is out. Prevent runoff from fire control or dilution from entering streams, sewers, or drinking water supply.

6. Accidental Release Measures

Personal Precautions

Non-emergency personnel: Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Avoid generating dust. Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust. Ensure adequate ventilation. If the concentration of dust exceeds the permissible exposure limit wear a respirator. Local authorities should be advised if significant spillages cannot be contained.

Emergency personnel: Keep unnecessary personnel away. Wear appropriate personal protective equipment.

Clean-Up Methods

Small spills (unset):

Avoid dry sweeping. Do not use compressed air to clean spilled silica sand. Use wet towel to wipe up small spills. Dispose of in closed containers.

Large spills (unset):

Avoid dry sweeping. Do not use compressed air to clean spilled silica sand. Use water spraying/flushing or ventilated or HEPA filtered vacuum cleaning system. Dispose of in closed containers.

Set Material:

Chip or grind off. If you are grinding or cutting cured product, ensure good work practice and use of personal protective equipment as needed to control exposure to respirable dust.

Environmental Precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so.

7. Handling and Storage

Handling

Avoid generating dust. Mechanical ventilation or local exhaust ventilation is recommended. Use all available work practices to control dust exposure, such as water sprays. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Avoid contact with eyes, skin, and clothing. Do not breathe dust. Wear a respirator if dust concentrations exceed permissible exposure limits. Do not permit dust to collect and build up on work surfaces, use good housekeeping. Avoid contact with unhardened cement products. Observe good industrial hygiene practices.

Storage

Use dust collection to trap dust produced during loading and unloading. Store in a closed container away from incompatible materials (See Section 10 of the SDS). Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Protect against physical damage.

8. Exposure Controls / Personal Protection

Personal Protective Equipment

Protective Measure:

Wear appropriate personal protective equipment.

Eye Protection:

Wear chemical splash goggles or safety glasses with side shield.

Hand Protection:

Wear chemical-resistant gloves such as: Nitrile, neoprene, butyl.

Skin and Body Protection:

Wear long sleeve shirt/long pants and other clothing as required to minimize contact. In case of

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Respirator Protection: dust production, dust-proof clothing. Avoid contact with unhardened cement products, if contact occurs wash immediately with soap and water. Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected to exceed exposure limits.

General Hygiene: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Engineering Controls

Mechanical ventilation or local exhaust ventilation is recommended. Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and emergency shower.

Exposure Limits

Component	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
Quartz (CAS 14808-60-7)	$\frac{10}{\%SiO_2 + 2} mg/m^3$	0.025 mg/m ³ (respirable)	0.05 mg/m ³ (respirable)
CSA Cement (CAS 65997-16-2)	5 mg/m ³ (respirable) 15 mg/m ³ (total dust)	1 mg/m ³ (respirable)	5 mg/m ³ (respirable) 15 mg/m ³ (total dust)
Portland Cements (CAS 65997-15-1)	5 mg/m ³ (respirable) 15 mg/m ³ (total dust)	1 mg/m ³ (respirable)	5 mg/m ³ (respirable) 15 mg/m ³ (total dust)

9. Physical and Chemical Properties

Physical State:	Solid	Freezing/Melting Point:	N/A
Form:	Powder	Boiling Point:	N/A
Color:	Gray	Flash Point:	N/A
Odor:	Characteristic	Evaporation Rate:	N/A
Odor Threshold:	N/A	Specific Gravity:	2.7
pH:	N/A	VOC:	0 g/L
Flammability:	N/A	U/L Flammability:	N/A
Vapor Pressure:	N/A	Vapor Density:	N/A
Solubility:	N/A	Kow:	N/A
Decomposition:	N/A	Viscosity:	N/A

10. Stability and Reactivity

Reactivity: Stable and non-reactive under normal conditions of use and storage.

Chemical Stability: Stable and non-reactive under normal conditions of use and storage.

Condition to Avoid: Conditions which generate dust. Avoid unintentional contact with water.

Substances to Avoid: Strong oxidizers. Strong acids and bases. Ammonium salts. Aluminum metal.

Hazardous Reactions: The product is stable if stored and handled as prescribed/indicated. Strong bases are formed on the addition of water.

Decomposition Products: Carbon dioxide, carbon monoxide, oxides of nitrogen, other organic compounds.

11. Toxicological Information

Likely Routes of Exposure

Ingestion: Expected to be a low ingestion hazard.

Inhalation: Irritation to nose and respiratory tract.

Skin contact: Causes severe skin burns.. May cause sensitization by skin contact.

Eye contact: Causes serious eye damage. Particles can cause corneal abrasion.

Symptoms: Corrosive effects. Sensitization. Symptoms include burns; itching, burning, redness and tearing.

Information on Toxicological Effects

Acute Effects

Toxicity: Not expected to be acutely toxic.

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Component	Estimate
FX-263 Toxicity Estimate	Acute, Oral, LD50 4223

Component	Species	Test Result
Quartz (CAS 14808-60-7)	Rat	Acute, Oral, LD50 22550 mg/kg

Skin corrosion/irritation: Causes severe skin burns.
Eye damage/eye irritation: Causes serious eye damage.
Respiratory sensitization: Not a respiratory sensitizer.
Skin sensitization: May cause sensitization by skin contact.
Aspiration hazard: No data available.
**Specific target organ toxicity
Single exposure:** Respiratory tract irritation.

Chronic Effects

Germ cell mutagenicity: No data available.
Carcinogenicity: May cause cancer.
Reproductive toxicity: No data available.
**Specific target organ toxicity
Repeated exposure:** Causes damage to organs (lungs) through prolonged or repeated exposure (inhalation). Repeated or prolonged exposure to respirable silica dust will cause lung damage in the form of silicosis. Symptoms include progressively more difficult breathing, cough, fever, and weight loss. Acute silicosis can be fatal.

Carcinogen / Reproductive Toxin / Mutagen Information					
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Portland Cement (CAS 65997-15-1)	5-30	---	---	A4	---
Quartz (CAS 14808-60-7)	50-65	1	---	A2	CA65

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 - Not classifiable as to carcinogenicity 4 - Probably not carcinogenic
NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen
ACGIH - A1 - Confirmed carcinogen A2 - Suspected carcinogen A3 - Animal carcinogen A4 - Not classified A5 - Not suspected
CA65 - California Prop 65

Further Information

Toxicological, ecotoxicological, physical, and chemical properties may not have been fully investigated. Hazard data above is estimated based on best available information. Some workers with certain pre-existing medical conditions such as: asthma, allergies, or impaired pulmonary and/or liver functions, or who may be particularly susceptible to this material, may be affected by exposure to this material.

12. Ecological Information

General Information

Information given is based on data on the components and the ecotoxicology of similar products. This material is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment

Supporting Data

Persistence and degradability: Not readily biodegradable.
Bioaccumulative potential: Not expected to bioaccumulate.
Mobility in soil: No data available.

Other Adverse Effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this product.

13. Disposal Considerations

Waste Disposal of Substance: Do not allow material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with

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Container Disposal: local/regional/national/international regulations. Empty containers or liners may retain some product residues; follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Disposal of Set Product: Chip or grind off. Solid material does not need special disposal consideration.

14. Transportation Information

DOT: FX-263 is not regulated for transport.

IMDG/IATA: FX-263 is not regulated for transport.

Additional Information

Special precautions for user: Read safety instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: Not applicable.

This information does not cover all specific regulatory or operational requirements of this product. The classifications for transportation may vary by container volume or different regional or national regulations.

15. Regulatory Information

United States

Federal Regulations: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.

CERCLA Hazardous Substance List (40 CFR 302.4):

Formaldehyde (CAS 50-00-0)	LISTED
Sulfate Crystals (CAS 10043-01-3)	LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard Categories:				
Immediate	Delayed	Fire	Pressure	Reactivity
Yes	Yes	No	No	No

SARA 302 Extremely hazardous substance: No

SARA 311/312 Hazardous chemical: Yes

SARA 313 (TRI reporting):

Chemical Name	CAS Number	% In Blend (approx.)
Aluminum oxide	1344-28-1	1-10
Lithium carbonate	554-13-2	<1

US. California Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer, birth defects, or reproductive harm.

Carcinogen / Reproductive Toxin / Mutagen Information					
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Quartz (CAS 14808-60-7)	50-65	1	KNOWN	A2	CA65 (Carcinogenic)
Lithium Carbonate (CAS 554-13-2)	Trace	---	---	---	CA65 (Developmental)
Formaldehyde (CAS 50-00-0)	Trace	1	ANTICIPATED	A2	CA65 (Carcinogenic)

IARC: 1- Carcinogenic 2- Possibly carcinogenic 3 – Not classifiable as to carcinogenicity 4 – Probably not carcinogenic
 NTP: Known to be human carcinogen or Reasonably anticipated to be a human carcinogen
 ACGIH – A1 – Confirmed carcinogen A2 – Suspected carcinogen A3 – Animal carcinogen A4 – Not classified A5 – Not suspected
 CA65 – California Prop 65

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US State Right-To-Know List

Chemical	Massachusetts RTK	New Jersey Work and Community RTK Act	Pennsylvania Worker and Community RTK Law	Maine CHC
Portland Cement (CAS 65997-15-1)	Listed	Listed	Listed	
Quartz (CAS 14808-60-7)	Listed	Listed	Listed	Listed

Canada

This product has been classified according to the hazard criteria of the HPR and the SDS contains all of the information required by the HPR.

International

The product is classified and labeled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work.

This product is not subject to or not applicable for any of the following International Regulations; **Stockholm Convention, Rotterdam Convention, Kyoto Protocol, Montreal Protocol, Basel Convention.**

International Inventories

Australia	All components of this product are listed on the Australian Inventory of Chemical Substances (AICS).
Canada	All components of this product are included on the Domestic Substances List (DSL) or Non-Domestic Substances List (NDSL).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China (IECSC)
Europe	All components of this product are included on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.
Japan	One or more components in this product are not listed on the Inventory of Existing and New Chemical Substances (ENCS).
Korea	All components of this product are included on the Existing Chemicals List (ECL)
New Zealand	All components of this product are included on the New Zealand Inventory.
Philippines	One or more components in this product are not listed in the Philippine Inventory of Chemicals and Chemical Substances (PICCS).
United States & Puerto Rico	All components of this product are listed on the Toxic Substances Control Act (TSCA) Inventory or are not required to be listed.

16. Other Information

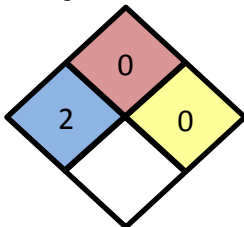
Date Prepared or Revised: June 2016

Supersedes: June 2014

Contact Simpson Strong-Tie Environmental Health and Safety at EHS@strongtie.com.

Additional Classifications

NFPA Ratings



HMIS Rating

HEALTH	2	PHYSICAL	0
FLAMMABILITY	0	PPE	E

Abbreviations

ACGIH: American Conference of Governmental Industrial Hygienists

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CAS No.:	Chemical Abstract Service Registry Number
CERCLA:	Comprehensive Environmental Response, Compensation and Liability Act (U.S. EPA)
HPR:	Hazardous Product Regulations (Canada)
DOT:	Department of Transportation (U.S.)
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals
HEPA:	High-Efficiency Particulate Air
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association
IMDG:	International Maritime Dangerous Goods code
NIOSH:	National Institute of Occupational Safety and Health (U.S.)
NFPA:	National Fire Protection Association (US)
NTP:	National Toxicology Program (US)
OSHA:	Occupational Safety and Health Administration (U.S.)
PEL:	Permissible Exposure Limit
SARA:	Superfund Amendments and Reauthorization Act (U.S. EPA)
STEL:	Short Term Exposure Limit (15 minute Time Weighted Average)
STOT:	Specific Target Organ Toxicity (GHS Classification)
TLV:	Threshold Limit Value
TSCA:	Toxic Substances Control Act (U.S.)
TWA:	Time Weighted Average (exposure for 8-hour workday)
VOC:	Volatile Organic Compounds
WHMIS:	Canadian Workplace Hazardous Materials Information System

Full Text of H-Phrases Under Section 3

H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H350	May cause cancer.
H373	May cause damage to organs through prolonged or repeated exposure.

Disclaimer

Safety Data Sheet (SDS) is prepared by Simpson Strong-Tie Co. in compliance with the requirements of OSHA 29 CFR Part 1910.1200. The information it contains is offered in good faith as accurate as of the date of this SDS. This SDS is provided solely for the purpose of conveying health, safety, and environmental information. No warranty, expressed or implied, is given. Health and Safety precautions may not be adequate for all individuals and/or situations. It is the user's obligation to evaluate and use this product safely and to comply with all applicable laws and regulations.

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