

# FX-702 Oven-Dried Rounded Silica Filler

## SAFETY DATA SHEET

### 1. Identification

#### Product Identification

**Product Identifier:** FX-702  
**Recommended Use:** FX-702 is an oven-dried rounded silica filler for use with Simpson Strong-Tie® coating systems and mortars.  
**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](http://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](http://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](http://www.strongtie.com/sds)

### 2. Hazard Identification

#### General Information

FX-702 Oven-Dried Rounded Silica Filler (Fine) is designed for use as an economical filler and broadcast sand for maintenance of concrete and epoxy grouting. It is a single component, solid product. FX-702 has been assessed according to the Globally Harmonized System (GHS). The product can be assumed to carry its hazards until the product has been fully cured in epoxy resin. The final hardened material can be considered nonhazardous. This Safety Data Sheet covers hazards and responses for the safe use and handling of FX-702.

#### GHS Classification

##### Classification according to HazCom2012 (GHS)

**Physical Hazards:** Not classified.  
**Health Hazards:** Carcinogenicity Category 1A H350: May cause cancer.  
STOT, Repeated Exposure Category 1 H372: Causes damage to organs through prolonged or repeated exposure.  
**Environmental Hazards:** Not classified.

**Main Symptoms:** Direct eye contact may cause temporary irritation. Inhalation may cause respiratory irritation. Long term exposure may cause chronic effects.

#### GHS Label Elements



Chronic Health

**Contains:** Crystalline Silica (Quartz)  
**Signal Word:** **DANGER!**  
**Hazard Statements:** H350: May cause cancer.  
H372: Causes damage to organs (lungs) through prolonged or repeated exposure.  
**Precautionary Statements:**  
**Prevention:** P201: Obtain special instructions before use.  
P202: Do not handle until all safety precautions have been read and understood.  
P260: Do not breathe dust.  
P264: Wash 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.

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<b>Response:</b>	P302+P352: IF ON SKIN: Wash with plenty of water.
	P333+P313: If skin irritation or rash occurs: Get medical advice/attention.
	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	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.
<b>Storage:</b>	P403 + P233: Store in a well-ventilated place. Keep container tightly closed.
	P405: Store locked up.
<b>Disposal:</b>	P501: Dispose of contents/container in accordance with local/regional regulations.

**Supplemental Label Information:** None known.

### Hazards Not Otherwise Classified (HNOC)

None known.

## 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: Global 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	90-100	14808-60-7	238-878-4
<b>Classifications:</b> Carc. 1A: H350, STOT RE 1: H372			

## 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

<b>Eye Contact:</b>	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, blurred vision, or swelling <b>consult a physician immediately.</b>
<b>Skin Contact:</b>	Remove contaminated clothing and product, immediately wash affected area with soap and water. Do not apply greases or ointments. If rash or irritation occurs <b>consult a physician.</b>
<b>Ingestion:</b>	Rinse mouth immediately. Do not induce vomiting. <b>Consult a physician.</b>
<b>Inhalation:</b>	Remove patient to fresh air. Give oxygen or artificial respiration if needed. If patient continues to experience difficulty breathing, <b>consult a physician.</b>

### Most Important Symptoms

May cause respiratory irritation if inhaled. Symptoms include discomfort in the chest, shortness of breath, or coughing.

## 5. Fire-Fighting Measures

<b>Suitable Extinguishing Media:</b>	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).
<b>Additional Information:</b>	None known.
<b>Hazards during Fire-Fighting:</b>	During a fire, gases hazardous to health may be formed. Do not allow run-off from fire-fighting to enter drains or water courses.
<b>Fire-Fighting Procedures:</b>	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). Keep unnecessary personnel away. 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. Local authorities should be advised if significant spillages cannot be contained.

**Emergency personnel:** Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate personal protection.

**Clean-Up Methods**

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

**Large spills:** 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.

**Cured Material:** Chip or grind off surface. 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. Take precautionary measures; do not allow dust to build up.

**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. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

**7. Handling and Storage**

**Handling**

Avoid generating dust. Mechanical ventilation or local exhaust ventilation is recommended. Wear appropriate personal protective equipment. When using, do not eat, drink or smoke. Do not breathe dust. Use only in well-ventilated places. Avoid contact with eyes, skin, and clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse. Use all available work practices to control dust exposure, such as water sprays. 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. To obtain optimal performance from Simpson Strong-Tie products, the products must be properly installed and used in accordance with the installation instructions and design limits provided by Simpson Strong-Tie.

**Storage**

Use dust collection to trap dust produced during loading and unloading. Store in a closed container away from incompatible materials. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Protect against physical damage. Keep out of reach of children.

**8. Exposure Controls / Personal Protection**

**Protective Measure:** Wear appropriate personal protective equipment.

**Eye Protection:** Wear 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 dust production, dust-proof clothing. Avoid contact with unhardened cement products, if contact occurs wash immediately with soap and water.

**Respirator Protection:** 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. Ventilation rates should be matched to conditions 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**

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Component	OSHA (PEL)	ACGIH (TLV)	NIOSH Pocket Guide
Quartz* (CAS 14808-60-7)	$\frac{10}{\%SiO_2 + 2} \text{ mg}/m^3$	0.025 mg/m <sup>3</sup> (respirable)	0.05 mg/m <sup>3</sup> (respirable)

\* When Quartz is heated to >870°C, it can change form tridymite; when heated to >1470°C, it can change form to cristobalite. The OSHA PEL of these forms of Quartz is half of that for its original form.

### 9. Physical and Chemical Properties

<b>Physical State:</b>	Solid	<b>Freezing/Melting Point:</b>	3110°F (1710°C)
<b>Form:</b>	Powder	<b>Boiling Point:</b>	4046°F (2230°C)
<b>Color:</b>	White/Tan	<b>Flash Point:</b>	N/A
<b>Odor:</b>	Characteristic	<b>Evaporation Rate:</b>	N/A
<b>Odor Threshold:</b>	N/E	<b>Specific Gravity:</b>	2.65
<b>pH:</b>	6-8	<b>VOC:</b>	0 g/L
<b>Flammability:</b>	N/A	<b>U/L Flammability:</b>	N/A
<b>Vapor Pressure:</b>	N/A	<b>Vapor Density:</b>	N/A
<b>Solubility:</b>	Insoluble	<b>Kow:</b>	N/A
<b>Decomposition:</b>	N/E	<b>Viscosity:</b>	N/A

### 10. Stability and Reactivity

<b>Reactivity:</b>	Stable and non-reactive under normal conditions of use and storage.
<b>Chemical Stability:</b>	Stable and non-reactive under normal conditions of use and storage.
<b>Condition to Avoid:</b>	Conditions which generate dust.
<b>Substances to Avoid:</b>	Strong oxidizers, such as hydrofluoric acid, fluorine, chlorine trifluoride, or oxygen difluoride.
<b>Hazardous Reactions:</b>	The product is stable if stored and handled as prescribed/indicated.
<b>Decomposition Products:</b>	When dissolved in hydrofluoric acid, will produce silicon tetrafluoride (corrosive gas).

### 11. Toxicological Information

#### Likely Routes of Exposure

<b>Ingestion:</b>	Expected to be a low ingestion hazard.
<b>Inhalation:</b>	May cause irritation to nose and respiratory tract.
<b>Skin contact:</b>	May causes mild skin irritation.
<b>Eye contact:</b>	Particles can cause corneal abrasion.
<b>Symptoms:</b>	May cause redness, burning, tearing, and swelling; discomfort in chest, shortness of breath, or coughing.

#### Information on Toxicological Effects

##### Acute Effects

<b>Toxicity:</b>	Not expected to be acutely toxic. Occupational exposure to the substance or mixture may cause adverse effects.
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Component	Species	Test Result
Crystalline Silica, Quartz (CAS 14808-60-7)	Rat	22500 mg/kg
<b>Acute, Oral, LD50</b>		

<b>Skin corrosion/irritation:</b>	Possible mild skin irritation.
<b>Eye damage/eye irritation:</b>	Direct contact may cause temporary eye irritation.
<b>Respiratory sensitization:</b>	Not a respiratory sensitizer.
<b>Skin sensitization:</b>	Not a skin sensitizer.
<b>Aspiration hazard:</b>	No data available.
<b>Specific target organ toxicity</b>	
<b>Single Exposure:</b>	No data available.

##### Chronic Effects

<b>Germ cell mutagenicity:</b>	No data available.
<b>Carcinogenicity:</b>	May cause cancer.
<b>Reproductive toxicity:</b>	No data available.
<b>Specific target organ toxicity</b>	

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**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
Quartz (CAS 14808-60-7)	90-100	1	KNOWN	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 this 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 local/regional/national regulations.  
**Container Disposal:** 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 surface. Solid material does not need special disposal consideration.

## 14. Transportation Information

**DOT:** FX-702 is not regulated for transport.  
**IMDG/IATA:** FX-702 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.

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US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): Not listed.  
 CERCLA Hazardous Substance List (40 CFR 302.4): Not 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): Not regulated.

### US. California Proposition 65:

**WARNING:** This product can expose you to chemicals which are known to the State of California to cause cancer, reproductive harm, or other birth defects. For more information, go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Carcinogen / Reproductive Toxin / Mutagen Information					
Component	% In Blend (approx.)	IARC Monographs	NTP	ACGIH	Other
Quartz (CAS 14808-60-7)	90-100	1	KNOWN	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					

### 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

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

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### 16. Other Information

Date Prepared or Revised: May 2020  
Supersedes: September 2019

Contact Simpson Strong-Tie Environmental Health and Safety at [EHS@strongtie.com](mailto:EHS@strongtie.com).

### Abbreviations

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

### 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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### Internal

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XNA