

## Siplast Zono-Patch

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Section 1	Product Description
<b>Product Name:</b>	Siplast Zono-Patch
<b>Synonyms:</b>	Zono-Patch
<b>General Use:</b>	To provide a lightweight fast-setting concrete that remedies ponding or inadequate slopes in roof substrates prior to the application of a new rigid insulation system.
<b>Product Description:</b>	A cementitious product blended with lightweight aggregates and performance enhancing admixtures.
<b>Supplier:</b>	Siplast, Inc. 1111 Highway 67 South Arkadelphia, AR 71923
<b>Chemical Information:</b>	(800) 922-8800
<b>Emergency Number:</b>	(800) 424-9300

Section 2	Hazards Identification
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Classification of the product in accordance with paragraph (d) of §1910.1200;

**Signal Word:**  
Danger



**GHS Classification:**

Skin Corrosion/Irritation, Category 1A  
Serious Eye Damage/Eye Irritation, Category 1  
Skin Sensitization, Category 1

Carcinogenicity, Category 1A  
Specific Target Organ Toxicity Single Exposure, Category 3  
Specific Target Organ Toxicity Repeat Exposure, Category 2

**Hazard Statements:**

Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
May cause cancer.

May cause respiratory irritation.  
May cause damage to lungs through prolonged or repeated inhalation.

**Precautionary Statements:**

**Prevention:**

Keep product sealed in original packaging. Store in a dry, well-ventilated place. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear protective gloves, clothing, and eye and face protection. Contaminated work clothing must not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all instructions have been read and understood. Do not breathe dust, fumes, gases, mists, vapors, or sprays. Use only outdoors or in a well-ventilated area. In case of inadequate ventilation wear respiratory protection. Dispose of contents/container in accordance with local/regional/international regulations.

**Response:**

In case of inhalation, remove to well-ventilated place. If breathing difficulty occurs, administer oxygen. Seek medical help if coughing and other medical symptoms do not subside. In case of eye contact, immediately flush eyes with copious amounts of water. Continue flushing for 15 minutes including under the lids to remove all particles. Call a physician immediately if irritation persists. In case of skin contact, wash skin with pH-neutral soap and water. Apply moisture renewing lotions to heal dry, irritated skin. Seek medical attention in all cases of severe irritation or burns. In case of ingestion, do NOT induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.



## Safety Data Sheet

### Section 3 Composition/Information on Ingredients

Chemical Name:	Common Name:	CAS #:	Weight %:*
Calcium aluminate cement	Calcium aluminate cement	65997-16-2	<60%
Calcium sulfate hemihydrate	Plaster of Paris	26499-65-0	<30%
Expanded perlite	Expanded perlite	93763-70-3	<10%
Exfoliated vermiculite	Exfoliated vermiculite	1318-00-9	<10%
Crystalline silica	Quartz	14808-60-7	<5%
Proprietary admixture blend*	Concrete admixtures	Varies*	<5%

\*Proprietary admixture blend and weight percentages are claimed as trade secrets of The Strong Company, Inc.

### Section 4 First-Aid Measures

<b>Inhalation:</b>	Remove to well-ventilated place. If breathing difficulty occurs, administer oxygen. Seek medical help if coughing and other medical symptoms do not subside.
<b>Eye Contact:</b>	Immediately flush eyes with copious amounts of water. Continue flushing for 15 minutes including under the lids to remove all particles. Call a physician immediately if irritation persists.
<b>Skin Contact:</b>	Wash skin with pH-neutral soap and water. Apply moisture renewing lotions to heal dry, irritated skin. Seek medical attention in all cases of severe irritation or burns.
<b>Ingestion:</b>	Do NOT induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately.

### Section 5 Fire-Fighting Measures

<b>General Hazards:</b>	Product is not hazardous during normal fire-fighting procedures and contains less than 1% organic substances that may produce smoke, fumes and/or hazardous gases.
<b>Extinguishing Media:</b>	Carbon dioxide, water, dry chemical, or foam may be used if smoldering occurs.
<b>Fire-Fighting Protection:</b>	No special protection required.
<b>Fire and/or Explosion Hazards:</b>	No fire or explosion hazards.
<b>Hazardous Combustion Products:</b>	Smoke, fumes, carbon dioxide, carbon monoxide, and oxides of sulfur may be released.

### Section 6 Accidental Release Measures

<b>Steps to Take in Case Material is Released or Spilled:</b>	Product is not considered hazardous according to RCRA (40 CFR Part 261). Follow personal protective equipment recommendations found in Section 8 of this SDS at a minimum. Avoid creating dust and use adequate ventilation and/or dust collection during clean-up. Shovel or vacuum product into a sealed container pending a waste disposal evaluation. Do not discharge into lakes, ponds, streams, or waterways.
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### Section 7 Handling and Storage

<b>Handling:</b>	Avoid creating and breathing dust. At a minimum, follow personal protective equipment recommendations found in Section 8 of this SDS.
<b>Storage:</b>	Product reacts with water. Store product in a dry location. Keep packaging sealed until use.

### Section 8 Exposure Controls/Personal Protection

Chemical Name:	OSHA PEL		ACGIH TLV
	Total Dust:	Respirable Fraction:	TWA:
Calcium aluminate cement	15 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Calcium sulfate hemihydrate	15 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Expanded perlite	15 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Exfoliated vermiculite	15 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>
Crystalline silica	0.29 mg/m <sup>3</sup>	0.10 mg/m <sup>3</sup>	0.05 mg/m <sup>3</sup>
Proprietary admixture blend	15 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

#### Control Parameters

<b>Engineering Measures:</b>	Use local exhaust ventilation or other engineering controls to reduce dust concentrations below overexposure levels. Refer to ACGIH publication "Industrial Ventilation" or similar publications for design of ventilation systems.
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#### Personal Protective Equipment (PPE)

<b>Respiratory Protection:</b>	Respirators are recommended during normal operation. When concentrations exceed PEL or TLV limits, respirator use is required.
<b>Respirator Type(s):</b>	N95 filtering facepiece or P95 half facepiece respirators are adequate for use during normal operation.
<b>Eye Protection:</b>	Wear tight fitting safety goggles to prevent contact with the eyes. Contact lenses should not be worn when handling products containing cement.
<b>Skin Protection:</b>	Wear impervious, alkali resistant gloves, closed-toe shoes or boots, and protective clothing to prevent contact with the skin.
<b>Glove Type(s):</b>	Wear impervious, alkali resistant gloves.



## Safety Data Sheet

Section 9		Physical and Chemical Properties	
<b>Formula:</b>	See Section 3	<b>Specific Gravity:</b>	Varies (mixture)
<b>Appearance:</b>	Gray to brown powder	<b>Vapor Pressure:</b>	N/A (solid)
<b>Odor:</b>	Odorless	<b>Evaporation Rate (BuAc = 1):</b>	N/A (solid)
<b>Lower Flammability Limit:</b>	Not combustible	<b>Vapor Density (Air = 1):</b>	N/A (solid)
<b>pH:</b>	9 – 11 (10% slurry in water)	<b>Solubility in Water:</b>	<1%
<b>Melting Point:</b>	N/A	<b>Viscosity:</b>	N/A (solid)
<b>Boiling Point:</b>	N/A	<b>Volatile Organic Compounds:</b>	N/A

Section 10		Stability and Reactivity	
<b>Reactivity:</b>	Reacts readily with water and produces an exothermic reaction (heat) and caustic calcium hydroxide.		
<b>Stability:</b>	Stable under normal conditions.		
<b>Conditions to Avoid:</b>	Unintentional contact with water.		
<b>Incompatible Materials:</b>	Product is incompatible with oxidizing materials.		
<b>Hazardous Decomposition Products:</b>	None.		
<b>Hazardous Polymerization:</b>	Will not occur.		

Section 11		Toxicological Information	
<b>Route(s) of Entry:</b>	Inhalation, eye contact, skin contact, ingestion		
<b>Target Organs:</b>	Acute: Eyes, Respiratory System, Skin, Stomach Chronic: Respiratory System, Immune System, Kidneys		
<b>Acute Symptoms:</b>	Inhalation of the product can irritate the nose and respiratory tract causing inflammation, sneezing, runny nose, and/or coughing. Contact with moist tissue areas such as the eyes and nose can cause mild irritation to severe burns or even blindness. These areas should be flushed with water immediately. Skin contact can cause dryness or cracking and trigger dermatitis in sensitive individuals. Ingestion of small amounts may cause nausea and is not known to be harmful; however, ingestion of large amounts can lead to severe burns of the mouth, throat, stomach, and digestive tract.		
<b>Delayed Symptoms:</b>	Prolonged skin and moist tissue contact can lead to delayed chemical burns that may range from mild to third degree. Burns can develop with little to no warning as pain or discomfort is normally not felt immediately after contact. Full extent of the damage may not be felt until several hours after contact. As such, pain or discomfort should not be used to determine the severity of burns. Always use pH-neutral soap and water to immediately wash areas that were exposed.		
<b>Chronic Symptoms:</b>	Crystalline silica is listed by the IARC as a known carcinogen and causes the chronic lung disease known as silicosis. Silicosis is known to increase the risk of contracting tuberculosis. Crystalline silica has also been shown to lead to autoimmune disorders and renal disorders.		

### Acute Toxicity

Chemical Name:	CAS #:	Oral LD50:	Dermal LD50:	Inhalation LC50:
Calcium aluminate cement	65997-16-2	Not determined	Not determined	Not determined
Calcium sulfate hemihydrate	26499-65-0	Not determined	Not determined	Not determined
Expanded perlite	93763-70-3	Not determined	Not determined	Not determined
Exfoliated vermiculite	1318-00-9	Not determined	Not determined	Not determined
Crystalline silica	14808-60-7	500 mg/kg (rat)	Not determined	Not determined
Proprietary admixture blend	Varies	Not determined	Not determined	Not determined

### Carcinogenicity

Chemical Name:	CAS #:	IARC:	NTP:	OSHA:
Calcium aluminate cement	65997-16-2	Not listed	Not listed	Not listed
Calcium sulfate hemihydrate	26499-65-0	Not listed	Not listed	Not listed
Expanded perlite	93763-70-3	Not listed	Not listed	Not listed
Exfoliated vermiculite	1318-00-9	Not listed	Not listed	Not listed
Crystalline silica	14808-60-7	Listed, Group 1	Listed, Known	Not listed
Proprietary admixture blend	Varies	Not listed	Not listed	Not listed



## Safety Data Sheet

### Section 12 Ecological Information

**Overview:** Product is not expected to present an ecological hazard.  
**Mobility:** Product is a solid and is expected to have low to zero mobility in soil.  
**Persistence:** Product is expected to persist in the environment for an extensive period of time as it changes from a fine powder to a hard solid when exposed to water.  
**Degradability:** Product is not expected to biodegrade quickly.  
**Other Adverse Effects:** None known

### Section 13 Disposal Considerations

**Overview:** Not considered a hazardous waste under RCRA 40 CFR Part 261.  
**Disposal Methods:** Dispose of in accordance with local, state, and federal regulations. Always contact a permitted waste disposer to assure compliance. Refer to Section 8 to minimize exposure.  
**Waste Disposal Code(s):** N/A

### Section 14 Transport Information

**Overview:** Not considered a hazardous substance under U.S. DOT regulations.  
**UN No.:** N/A **Hazard Class:** N/A  
**UN Shipping Name:** N/A **Packing Group No.:** N/A

### Section 15 Regulatory Information

**OSHA HCS:** The components of this product are considered hazardous chemicals under this regulation and should be included in an employer's Hazard Communication Program.  
**TSCA Status:** All non-proprietary components in this product are on the TSCA Inventory.  
**FHSA:** A component of this product calcium aluminate is considered as a hazardous substance. As such, this product is subject to statutes promulgated under the act.

Reporting Requirements: Chemical Name:	EPCRA (SARA Title III)					CERCLA 40 CFR 302:	CAA 112(r)
	§ 302:	§ 304:	§ 311:	§ 312:	§ 313:		
Calcium aluminate cement	No	No	Yes, 10,000 lb	Yes, 10,000 lb	No	No	No
Calcium sulfate hemihydrate	No	No	Yes, 10,000 lb	Yes, 10,000 lb	No	No	No
Expanded perlite	No	No	Yes, 10,000 lb	Yes, 10,000 lb	No	No	No
Exfoliated vermiculite	No	No	Yes, 10,000 lb	Yes, 10,000 lb	No	No	No
Crystalline silica	No	No	Yes, 10,000 lb	Yes, 10,000 lb	No	No	No
Proprietary admixture blend	No	No	Yes, 10,000 lb	Yes, 10,000 lb	No	No	No

**California Prop. 65:** A component of this product, crystalline silica, is a substance known to the State of California as a carcinogen. This product may also contain trace amounts of heavy metals or organic compounds known to the State of California to cause cancer, birth defects, or other reproductive toxins.

### Section 16 Other Information

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to The Strong Company, Inc. that we believe to be accurate. The Strong Company, Inc. makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in this (Material) Safety Data Sheet. Users have the responsibility to comply with all health and safety laws, as well as environmental regulations when using this product, and should determine the suitability of the product for its intended use.

#### Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	IARC	International Agency for Research on Cancer
CAA	Clean Air Act	LD(C)50	Median Lethal Dose (Concentration)
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
CFR	Code of Federal Regulations	N/A	Not Available or Not Applicable
DOT	U.S. Department of Transportation	NTP	National Toxicology Program
EPCRA	Emergency Planning and Community Right-to-Know Act	RCRA	Resource Conservation and Recovery Act
FHSA	Federal Hazardous Substances Act	SARA	Superfund Amendments and Reauthorization Act
HCS	Hazard Communication Standard	TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		TWA	8-Hour Time Weighted Average