



SAFETY DATA SHEET

SDS No.: SEC-SDS-COA01

Revision No.: 03

SIAM ENGINEERING CERAMICS CO.,LTD.

Issue Date: 5 MAY 2026

COATING

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: CERCOAT-180
Product Code: PO0100
Chemical Name: CERAMIC COATING
Product Use: REFRACTORY COATING MATERIAL
Manufacturer/Supplier: SIAM ENGINEERING CERAMICS COMPANY LIMITED
204/6 Village No.7 Charoen Tham Sub-District, WihanDaeng
District, Saraburi, Thailand 18150
Tel. +66-3634-0414, Fax. +66-3634-0242
Email. sec@secrefrac.com

2. HAZARD IDENTIFICATION

Hazardous Substance. Non-dangerous Goods

This product is not expected to produce any unusual hazards during normal use. Apply use spray coating. Exposure to high dust levels may irritate the skin, eyes, nose, throat, or upper respiratory tract.

Risk Phrases

R36/R37/38: Irritating to eyes, respiratory system and skin.

R43: May cause sensitization by skin contact.

Safety Phrases

S2: Keep out of the reach of children.

S24/25: Avoid contact with skin and eyes.

S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.



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3. COMPOSITION/INFORMATION ON THE COMPONENTS

Composition	CAS. No.	Proportion
Al ₂ O ₃	1344-28-1	60.0-75.0 %
SiO ₂	7631-86-9	10.0-15.0 %
ZrO ₂	1314-23-4	10.0-15.0 %
Fe ₂ O ₃	1309-37-1	0.0-0.5 %

4. FIRST AID MEASURES

- Swallowed:** Rinse mouth and lips with water. Do not induce vomiting. Give water to drink to dilute stomach contents. If symptoms persist, seek medical attention.
- Eyes:** In case of contact, do not rub or scratch your eyes. To prevent mechanical irritation, flush thoroughly with water for 15 minutes. If irritation persists, seek medical attention.
- Skin:** To prevent the drying effect of coating refractory, wash with mild soap and water. A commercially available hand lotion may be used to treat dry skin areas. If skin has become cracked, take appropriate action to prevent infection and promote healing. If irritation persists, seek medical attention.
- Inhalation:** Remove to fresh air. Leave the area of exposure and remain away until coughing and other symptoms subside. Other measures are usually not necessary, however if conditions warrant, seek medical attention.
- First Aid Facilities:** Eye wash station. Washing facilities with running water.
- Advice to Doctor:** Treat symptomatically. Pre-existing upper respiratory and lung diseases such as, but not limited to, bronchitis, emphysema and asthma. Pre-existing skin diseases such as, but not limited to, rashes and dermatitis. Treatment should be directed at the control of symptoms and the clinical condition.



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5. FIRE FIGHTING MEASURES

Fire/Explosion Hazard:	None.
Flammability:	Not flammable.
Extinguishing Media:	Not readily combustible. Use water spray, foam, dry chemical or carbon dioxide.
Hazards from Combustion Products:	None.
Protective Equipment for Fire-Fighting:	A self-contained breathing apparatus should be used to avoid inhalation of the product.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear appropriate protective clothing.
Environmental Precautions and Clean-up Methods:	Vacuum or sweep up material and place in a designated labeled waste container. Try to prevent the material from entering drains or water courses.
Spillages:	Spillages should be removed promptly. Floors may become slippery where this product has been spilled, especially when wet. Sweep up into suitable containers for recovery or disposal. Avoid creating a dust.

7. HANDLING AND STORAGE

Handling:	Avoid creating a dust. Use in well ventilated area. Avoid contact with eyes, skin and clothing.
Storage:	Keep container tightly closed in a cool, well-ventilated place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Control Measures:	Use of the basic principles of Industrial Hygiene will enable this material to be used safely.
Respiratory Protection:	Good ventilation should be provided to keep airborne dust levels below exposure limits. Dust mask if conditions are dusty.



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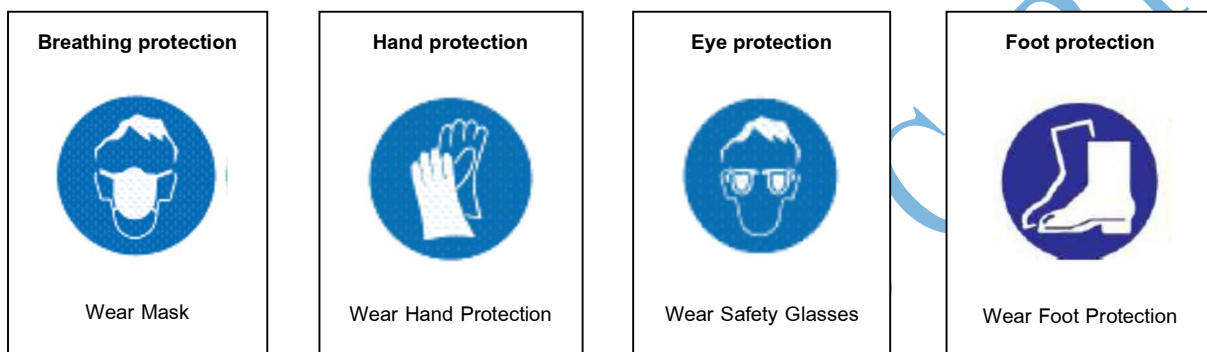
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Hand Protection:	Wear suitable impervious gloves such as rubber.
Eye Protection:	The nature of the work in hand will determine the choice of gloves. Wear safety glasses if risks of accidental contamination are possible during application.
Other Protective Clothing or Equipment:	Impervious clothing as needed to avoid skin contact and contamination of personal clothing.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Slurry
Color:	White
Odor:	Odourless
pH:	7
Solubility:	Slightly soluble
Boling/Melting Point:	2000 °C
Maximum Temperature Service:	1800 °C
Density:	1.80 g/cm ³
Vapour Pressure:	Not applicable
Flash Point:	Not applicable
Flammability:	Not flammable
Auto-Ignition Temperature:	Not ignition
Dust Explosion hazard:	Not applicable



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10. STABILITY AND REACTIVITY

Ceramic coating Refractory is stable, compatible with most other building materials, will not decompose into hazardous by-products and does not polymerise.

Stability:	Stable under normal conditions.
Conditions to avoid:	No decomposition if stored and applied as directed.
Hazardous Decomposition Products:	None.
Incompatible Materials:	None.

11. TOXICOLOGICAL INFORMATION

There is no direct toxicological data on this product.

Acute toxicity:	Low order of acute toxicity.
Eye irritation:	The product should be considered as a severe eye irritant.
Skin irritation:	May cause slight transient irritation.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Product forms an alkaline slurry when mixed with water.
Persistence and Degradability:	Product is persistent and would have a low degradability.
Mobility:	A low mobility would be expected in a landfill situation.

13. DISPOSAL CONSIDERATIONS

Dispose of material in accordance with federal, state, and local regulations. Never discharge directly into sewers or surface waters. Consult with environmental regulatory agencies for guidance on acceptable disposal practices. Slurry may plug drains. Trace amounts of residue can be flushed to a drain, using plenty of water.



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14. TRANSPORT INFORMATION

Transportation is done in bulk form by Ship, Rail and Road.

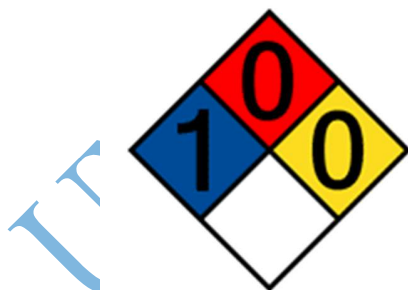
UN Number:	None allocated.
Proper Shipping Name:	None allocated.
Class and Subsidiary Risk:	None allocated.
Packing Group:	None allocated.
Hazchem Code:	None allocated.
Hazard Classes:	Transportation is not dangerous.
Environmental Hazard:	Transportation is not dangerous.

15. REGULATORY INFORMATION

Ceramic coating refractory is not classified as Dangerous Goods. Classified as Hazardous according to the criteria of the National Occupational Health and Safety Commission (NOHSC) Approved Criteria For Classifying Hazardous Substances [NOHSC:1008] 3rd Edition. Exposures by inhalation to high levels of dust may be regulated under the Hazardous Substances Regulations (State) as they are applicable to Respirable Crystalline Silica, requiring exposure assessment, controls and health surveillance (NOHSC).

16. OTHER INFORMATION

It is recommended that the product only be employed for the purposes advised.
Risk classification system NFPA 704:



Health hazard:	1 (Irritants Material)
Flammability:	0 (Will not burn)
Reactivity:	0 (Stable)

First Issue Date: 16 January 2018



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Revisions Highlighted:	Future revisions will incorporate such information as is required but which is not available at this time.
Uses and Restrictions:	Customers are urged to ensure that the product is entirely suitable for their own purpose. It is the customer`s responsibility to ensure that a suitable and sufficient assessment of the risks created by the use of the product is undertaken.
Footnote:	The information contained in this Safety Data Sheet on the Preparation is based on current knowledge and national laws, as far as the working conditions of the users is beyond our knowledge and control. The product must not be used for purposes other than those that are specified without first having written instructions on how to handle. It is always the responsibility of the user to take the appropriate measures in order to comply with the requirements established by current legislation. The information contained in this Safety Data Sheet only states a description of the safety requirements for the preparation, and it must not be considered as a guarantee of this properties. All warranties are excluded. Our most current General Sales Conditions shall apply. Please consult the Technical Data Sheet prior to use.