

From exterior industrial environments, to open air parking garages, mechanical rooms and elevator shafts, you can be sure there is a CAFCO[®] coating or sealant which meets your needs. Only Isolatek International offers such a wide variety of surface coatings and sealants for Spray-Applied Fire Resistive Materials (SFRMs) as well as sprayed Thermal and Acoustical materials. Isolatek has several products which provide multiple degrees of enhanced surface integrity. Each has been specifically engineered to provide tough, reliable performance and protection.

SEALANTS

CAFCO[®] BOND-SEAL (TYPE EBS)

PRODUCT DESCRIPTION

Water based sealer designed to provide a firmer surface. Inexpensive, quick, and easy to apply. Ideal for elevator shafts, mechanical rooms, areas next to air shafts, or anywhere high velocity air flow or vibration occurs. CAFCO[®] BOND-SEAL (TYPE EBS) is also used as an adhesive for CAFCO SFRMs and Thermal and Acoustical Insulation Products.

PRODUCT ADVANTAGES:

- *Certified by UL. Will not adversely affect fire resistive performance when used in accordance with UL guidelines*
- *Clear drying. May be tinted to meet specification requirements*
- *Easily applied by airless spray equipment*
- *Can be applied over SFRMs, Thermal Insulation and Acoustical Materials*
- *Inorganic formulation*
- *Locks down loose particulates which may result from abuse*
- *Low VOC*

CAFCO[®] BOND-SEAL (TYPE X)

PRODUCT DESCRIPTION

Green tinted, water based surface encapsulant used as a lock down after abatement. Also can be applied as a surface sealer over SFRMs to identify areas of abatement or respray.

PRODUCT ADVANTAGES:

- *Certified by UL*
- *Inorganic formulation*
- *Water soluble*
- *Dries to a green tint which allows for easy identification after use*
- *Easily applied with airless spray equipment*
- *For application with all CAFCO SFRMs*
- *Encapsulates loose particulates which may result from abatement work*
- *Low VOC*

COATINGS

CAFCO[®] TOP-COTE™

PRODUCT DESCRIPTION:

Water based, permeable surface coating designed to provide multiple degrees of flexibility and abrasion resistance, CAFCO TOP-COTE forms a tough, yet aesthetically pleasing and bright appearance. Ideal for indirect weather exposures and high wear applications such as covered parking garages, elevator shafts, mechanical rooms, work centers, or anywhere an attractive, abrasion resistant, and resilient surface coating is required.

PRODUCT ADVANTAGES:

- *Will not adversely affect fire resistive performance when used in accordance with application guidelines*
- *Dries to white color and has high light reflective properties*
- *Easy to apply by brush, roller, or airless spray equipment*
- *Can be applied over SFRMs, Thermal Insulation and Acoustical Materials*
- *Bridging encapsulant binds together loose particulates which may result from abuse*

APPLICATION/COVERAGE

CAFCO TOP-COTE offers the design flexibility of various levels of protection and appearance. Simply by applying the material at different coverage rates, a number of textures and abrasion resistant levels can be achieved. By rolling or tamping flat the surface of the base material prior to applying CAFCO TOP-COTE, a smooth and pleasing appearance can be created.

For a tight surface texture which must stand up to high velocity air flow, apply CAFCO TOP-COTE at 120 ft²/U.S. gal (2.9 m²/liter). This coverage ensures that the surface is bound together to form a tight, durable texture.

A tougher coating that stands up to wear and tear in work areas can be obtained by applying CAFCO TOP-COTE at a 60 ft²/U.S. gal (1.5 m²/liter) rate. Yielding a tougher, abrasion resistant coat, this coverage rate also provides a whiter and brighter appearance. Such a resilient finish is ideal for mechanical rooms, generator rooms, automotive bays, and anywhere occasional physical contact with the SFRMs or insulation material may occur.

When an extreme wear and abrasion resistant surface is called for, apply CAFCO TOP-COTE at 30 ft²/U.S. gal (0.74 m²/liter). This application rate provides almost continuous, solid coverage. Clean in appearance and extremely abrasion resistant, this coating rate is also permeable and offers a high level of light reflectance.

Other application rates can be used to obtain desired coverage and surface characteristics; however, CAFCO TOP-COTE is not recommended for coverage rates beyond 15 ft²/U.S. gal (0.37 m²/liter) applied to a tamped flat surface material.

COATINGS

CAFCO® FENDOLITE® M-II

PRODUCT DESCRIPTION

High density, portland cement based Spray-Applied Fire Resistive Material used alternately as a coating. Provides the highest degree of damage and abrasion resistance. Ideal for indirect weather exposures, or anywhere a rigid, tough, cement-like finish is desired.

PRODUCT ADVANTAGES:

- *UL Classified. Will not adversely affect fire resistive performance when used in accordance with UL guidelines*
- *Easy to apply with standard wet-mix application equipment or by trowel using CAFCO® FENDOLITE® TG*
- *UL approved to be applied directly over Commercial & Medium density SFRMs at a maximum 1/4" thickness*
- *Excellent abrasion and erosion resistant properties*
- *Locks down loose particulates which may result from abuse*
- *May be used as a stand-alone fire resistive material*

Quick-Reference Selection Chart

Product Characteristics	CAFCO® BOND-SEAL	CAFCO® BOND-SEAL (TYPE X)	CAFCO® FENDOLITE® M-II	CAFCO® TOP-COTE
Drying Color	Clear	Green Tint	Light Gray	White
Enhancement Type	Water Based Surface sealer. Enhances the surface texture.	Water based surface encapsulant. Locks down particulates during abatement.	High density, cement based coating. Forms a rigid, weather resistant surface.	Water based, permeable surface coating. Forms flexible, abrasion resistant finish.
UL Classified	✓	✓	✓	*
Suitable Over Wet Mix Products	✓	✓	✓	✓
Suitable Over Dry Mix Products	✓	✓	✓	✓
Sample Applications				
Abated Surfaces		▲		
Automotive Bays	●	●	●	▲
Correctional Facilities	●	●	●	▲
Elevator Shafts	▲	●	●	●
Generator Rooms	●	●	●	▲
Indirect Weather Exposures			▲	●
Loading Docks	●	●	▲	●
Locker Rooms	●	●	●	▲
Machine Shops	●	●	●	▲
Mechanical Rooms	●	●	●	▲
Open Air Parking Decks	●	●	▲	●
Parking Garages	●	●	●	▲
Warehouses	▲	●	●	●
* Acceptable for use over CAFCO Spray-Applied Fire Resistive Materials. ▲ Primary Recommendation ● Secondary Selection				



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The performance data herein reflect our expectations based on tests conducted in accordance with recognized standard methods under controlled conditions. The applicator, general contractor, property owner and/or user MUST read, understand and follow the directions, specifications and/or recommendations set forth in Isolatek International's publications concerning use and application of these products, and should not rely merely on the information contained in this product data sheet. Isolatek International is not responsible for property damage, bodily injuries, consequential damages, or losses of any kind that arise from or are related to the applicator's, general contractor's, or property owners' failure to follow the recommendations set forth in Isolatek International's publications. The sale of these products shall be subject to the Terms and Conditions set forth in the Company's invoices.



Isolatek International provides passive fireproofing materials under the CAFCO® trademark throughout the Americas and other markets and under the ISOLATEK® trademark throughout the world.

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Section 1 – Chemical Product / Company Information

Product Name: CAFCO® BOND-SEAL **Effective Date:** July 27, 2015

Product Use/Class: Adhesive/Sealer for fireproofing

Supplier: United States Mineral Products Company **Preparer:** R&D Department
 dba Isolatek International
 41 Furnace Street
 Stanhope, NJ 07874 USA
 (973)-347-1200

In Case of Emergency Call: CHEMTREC **Supersedes:** August 6, 2012
 800.424.9300 (USA) +1 703.527.3887 (Int'l)

Section 2 – Hazards Identification

GHS Classification:	Hazard Category	Route of Exposure
Hazard Class		
Skin Irritation	2	Skin
Skin Sensitizer	1	Skin
Eye Irritation	2B	Eye
Inhalation Toxicity	4	Nose/Mouth

Global Harmonization Labeling and Classification:

Signal word: Warning

Hazard Symbol(s): GHS07



Overview: A thick liquid that poses little immediate hazard.

Primary Route(s) of Entry: Skin Contact, Skin Absorption, Inhalation, Ingestion, Eye Contact

Medical Conditions Prone to Aggravation by Exposure: Sensitive skin; respiratory conditions

Hazard Statements:	
H303	May be harmful if swallowed.
H313	May be harmful in contact with skin.
H320	Causes eye irritation.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H402	Harmful to aquatic life.

Precautionary Statements:	
P202	Do not handle until safety precautions have been read and understood.
P261	Avoid breathing dust/ fumes/ gas/ mist/ vapours/ spray.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well ventilated area.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284	In case of inadequate ventilation, wear respiratory protection.
P403	Store in a well ventilated place.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Response:	
P301+P330 P331+P312	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER or doctor/ physician if you feel unwell.
P302+P352+ P332+P313+ P363	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/ attention. Wash contaminated clothing before reuse.
P304+P340+ P342+P313	IF INHALED: Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Get medical advice/ attention.
P305+P351+ P338+P337+ P313	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/ attention.

Storage:	
P402+P403+ P404+P410+ P411	Store in a dry place. Store in a well ventilated place. Store in a closed container. Protect from sunlight. Store at temperatures not exceeding 38°C/ 100°F.

Disposal:	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations (see section 13).

Section 3 – Composition / Information On Ingredients

Chemical Name	CAS Number	Wt. %
Poly(vinyl alcohol)	25213-24-5	<5
Poly(vinyl acetate)	90003-20-7	<50

Section 4 – First Aid Measures

General – If irritation or other symptoms occur or persist from any route of exposure, remove the affected individual from the area: see a physician/get medical attention.

First Aid – Skin Contact: Wash with soap and water. Remove contaminated clothing. If persistent irritation occurs, seek medical attention.

First Aid – Eye Contact: Flush eyes thoroughly with copious amounts of water. Seek medical attention if irritation persists.

First Aid – Inhalation: Remove to fresh air. Seek medical attention if irritation persists.

First Aid – Ingestion: If swallowed do not induce vomiting. Rinse mouth out with water. If Irritation persists seek medical attention.

Protection of first aid responders: Wear proper personal protective clothing and equipment.

Ingestion may cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Repeated or prolonged exposure may cause irritation of eyes and skin.

Section 5 – Fire Fighting Measures

Extinguishing Media: ABC dry chemical, foam or carbon dioxide.

Unusual Fire & Explosion Hazards: The pressure in sealed containers can increase under the influence of heat and rupture.

Special Firefighting Procedures: Wear positive pressure self-contained NIOSH approved breathing equipment and approved protective equipment if necessary. Prevent fire extinguishing water from contaminating surface water or the ground water system.

Section 6 – Accidental Release Measures

Personal precautions, Protective Equipment, and Emergency Response: Use personal protective equipment as recommended in section 8.

Environmental precautions: The product should not be allowed to enter drains or soil.

Methods and materials for containment and cleaning up: Large spills can be controlled mechanically by pumping for disposal. Soak up with inert absorbent material (e.g. sand, silica gel, sawdust). Clean contaminated floors thoroughly while observing environmental regulations.

Section 7 – Handling And Storage

Precautions for safe handling: When working with any chemical product, use good workplace procedures. Do not cut, puncture, or weld on or near the container. Wash thoroughly after handling this product. Always wash up before eating, smoking or using the facilities. Use under well ventilated conditions. Avoid skin and eye contact. Avoid inhalation of mist, spray, fume or vapor. Avoid drinking, tasting, swallowing or ingesting this product. Wash contaminated clothing before reuse.

Conditions for safe storage: Store between 4 and 38°C (40 and 100°F). Keep away from heat, sparks, and open flames. Avoid extreme heat or cold. Do not store in open, unlabeled or mislabeled containers. Keep container closed when not in use. Empty container contains residual product which may exhibit hazards of product. Do not reuse empty container.

Section 8 – Exposure Controls / Personal Protection

Permissible Exposure Limits

Chemical Name	CAS Number	OSHA PEL	ACGIH TLV	NIOSH	Mexico
Poly(vinyl alcohol)	68412-54-4	15 mg/m ³	10 mg/m ³	N/E	N/E
Poly(vinyl acetate)	68412-54-4	N/E	N/E	N/E	N/E

Engineering Controls: Provide ventilation to ensure compliance with applicable exposure limits.

Respiratory Protection: In case of vapor formation use a respirator with an approved filter.

Skin Protection: Wear rubber, nitrile, or latex gloves. Use typical long sleeve work clothing or a "Tyvek" type suit .

Eye Protection: Wear proper eye protection; at minimum, safety glasses with side shields.

Work / Hygienic Practices: Use proper personal protective equipment. Eye wash stations are recommended in the work area. Do not flush product into drains. Follow standard industry hygienic rules, such as but not limited to, not smoking or drinking while using product and washing hands at the end of the day.

Section 9 – Physical And Chemical Properties

Appearance:	White Liquid, Aqueous dispersion
Odor:	Slight
pH:	4-8
Melting Point (°F):	N/E
Boiling Point (°F):	>212F
Flash Point:	Not Applicable
Evaporation Rate:	Not Applicable
Flammability:	Not flammable
Lower Explosive Limit:	N/E
Upper Explosive Limit:	N/E
Vapor Pressure (mm Hg):	ca. 23 hPa, at 20°C
Relative Density (kg/mm³):	0.9-1.1
Solubility in Water:	Insoluble but dispersible
Specific Gravity (H₂O=1):	N/E
Physical State:	Liquid
% Volatiles:	50
Auto ignition temperature	N/E

Section 10 – Stability And Reactivity

Chemical Stability (under normal conditions):	Stable
Possibility of Hazardous Reactions:	None
Conditions to Avoid:	Avoid extreme temperatures and direct sunlight.
Incompatibility:	None known.
Hazardous Decomposition Products:	No hazardous decomposition products are known.
Hazardous Polymerization:	No hazardous polymerization will occur under normal conditions.

Section 11 – Toxicological Information

Information on likely routes of exposure:

General: Caution must be exercised through the prudent use of personal protective equipment and handling procedures to minimize exposure.

Eyes: May cause eye irritation.

Skin: Causes skin irritation.

Inhalation: High airborne concentrations of vapor resulting may cause irritation of the respiratory tract and mucous membranes.

Ingestion: Not likely route of exposure but ingestion may cause irritation.

Carcinogenicity	IARC			NTP		OSHA
	Group 1	Group 2A	Group 2B	Known	Suspect	
Chemical Name						
Poly(vinyl alcohol)	N/E	N/E	N/E	N/E	N/E	N/E
Poly(vinyl acetate)	No	No	No	No	No	No

Acute toxicity

No toxicity studies have been conducted on this product.

Components:

Poly(vinyl alcohol)

Oral rat: LD50: >5000 gm/kg

Inhalation LC50: >20 mg/l (rats, dust with 3-5 micron particle size; 1 hr. exposure)

Chronic effects – For this category no toxicological test data is available for the whole product.

Carcinogenicity - For this category no toxicological test data is available for the whole product.

Mutagenicity - For this category no toxicological test data is available for the whole product.

Teratogenicity - For this category no toxicological test data is available for the whole product.

Developmental effects - For this category no toxicological test data is available for the whole product.

Fertility effects - For this category no toxicological test data is available for the whole product.

Target organs – For this category no toxicological test data is available for the whole product.

Review Section 2 for any additional assessments

Section 12 – Ecological Information

Ecological Information: No ecological testing has been conducted on this product.

Ecotoxicity

Poly(vinyl alcohol)

Fish (Pimephales promelas) 96-hr. LC50: >40,000 ppm

Fish (Lepomis macrochirus) 96-hr. LC50: >10,000 ppm

Persistence and degradability: The product is estimated to be readily biodegradable according to OECD classification

Bioaccumulative potential: Not likely

Mobility in soil: N/E

Section 13 – Disposal Considerations

Disposal Information: Do not allow the product to enter drains, water courses or the soil. Liquids cannot be disposed of in a landfill. Allow liquid material to dry. Dispose of in accordance with federal, state and local regulations.

Section 14 – Transportation Information

Proper Shipping Name: Not regulated – See Bill of Lading for details
Technical Name: Not regulated
Hazard Class: Not regulated
UN/NA Number: Not regulated
Additional Notes: None

Section 15 – Regulatory Information

US Regulations
HCS Classification Irritating material

SARA 313 - Supplier Notification None

U.S. Federal Regulations SARA 311/312	Immediate Health (Acute)	Delayed Health (Chronic)	FIRE	PRESSURE	REACTIVE
	No	No	No	No	No

INTERNATIONAL REGULATIONS AS FOLLOWS:

Chemical Inventory Status

All chemicals in this product are listed or exempt from listing in the following:

U.S	Canada	Europe	Australia	Korea
TSCA	DSL NDSL	EINECS ELINCS	AICS	ECL
Yes	Yes No	No	Yes	Yes

CANADIAN WHMIS

This SDS has been prepared in compliance with Controlled Product Regulations and contains all information required.

CANADIAN WHMIS CLASS: D2B

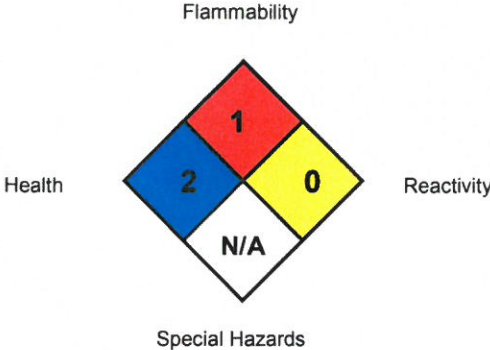
HMIS Ratings

HEALTH	2
FLAMMABILITY	1
REACTIVITY	0
PERSONAL PROTECTION	B

Section 16 – Other Information

N/E – Non Established
N/A – Not Applicable

NFPA:



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