

AEROBARRIER X1

AEROSOL-APPLIED, WATERBORNE ACRYLIC SEALANT

AeroBarrier X1 is a safe, non-toxic, waterborne acrylic sealant for use with AeroBarrier air sealing systems. AeroBarrier pressurizes the building envelope and aerosolizes the sealant before injecting precise levels of this sealant mist into the building.

Sealant particles are automatically drawn to each leak, building a complete and tight seal. System software records progress in real time, noting before and after ACH. AeroBarrier X1 has no VOCs or off-gassing and meets multiple, exacting industry tests and standards.

AeroBarrier seals remain firmly in place for years, staying completely pliable and flexible. This reduces energy loss and mitigates moisture, sound, and odor infiltration to improve indoor air quality and overall comfort.

Features and Benefits

- Seals leak up to ½” and as small as a human hair.
- Most economical to install at rough in or drywall stage of construction but can be applied to unoccupied, finished spaces.
- In multi-family applications, a tighter building envelope offers reduction in noise transmission, mitigates odor transfer, reduces pest migration and enhances climate control.
- Sealant does not stick to vertical surfaces like walls, windows, or doors.
- AeroBarrier is UL GreenGuard Gold certified and is safe to use in any type of building.
- Ultra-Low VOC and has no off-gassing.

Applicable Standards

AeroBarrier X1 has been tested to the following industry standards:

- GreenGuard Gold Certification
- ASTM E84: Standard Test Method for Surface Burning Characteristics of Building Materials
- ASTM C719: Standard Test Method for Adhesion and Cohesion of Elastomeric Joint Sealants Under Cyclic Movement
- ASTM D543: Standard Practices for Evaluating Chemical Compatibility
- NFPA 285*: Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components
- ASTM E2357*: Standard Test Method for Determining Air Leakage of Exterior Air Barrier Assemblies

Limitations

- AeroBarrier is intended for use on the interior surfaces of residential and commercial building envelopes.
- Do not apply to damp, contaminated or frost-covered surfaces.
- Not to be used as a permanently exposed surface.
- When applying in cold weather conditions, follow cold weather applications/protocols as defined by manufacturer.
- Keep product from freezing.

Storage

Store AeroBarrier X1 in original, undamaged packages in a clean, dry, protected location with temperatures from 40 to 100 °F (5 to 37 °C).



Shelf Life

1 year when stored in accordance with storage instructions.

Sealant Information

Property	Description
Part Number	AERO-128
Packaging	5-gal (19-L) pails
Weight	45 lbs (20.41 kg)
Storage Temperature	40 to 100 °F (5 to 37 °C) <i>Do Not Freeze</i>
Shelf Life	1 year
Application Temperature	Above 40 °F (5 °C) and rising. If installing below 40 °F (5 °C), please refer to Cold Weather Air Barrier Installation Technical Bulletin or contact AeroBarrier Technical Service

Technical Data

Property	Description
Sealant Base	Acrylic
Color	White
Dispersion	Water
Application	Aerosol
Solids	18.5 to 21.5%
VOC	12 g/l

Warranty

AeroBarrier warrants its products to be free of defects in materials but makes no warranty as to sealant appearance or color. Since methods of sealant application and on-site conditions are beyond our control and can affect performance, AeroBarrier makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY, and FITNESS FOR A PARTICULAR PURPOSE with respect to AeroBarrier products. AeroSeal LLC's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of AeroBarrier products proven to be defective, and AeroSeal shall not be liable for any loss or damage. Please refer to our website at <https://aeroseal.com/aerobarrier> for the most up-to-date product data sheets.

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NOTE: All AeroBarrier Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) requirements.

Precautions

Installer should wear full-face respirator with an organic vapor-type breathing cartridge, if inhalation exposure is possible. Keep out of reach of children. Refer to full SDS sheet for health hazard information. For use and application by trained AeroBarrier certified and professional installers only.



AEROBARRIER
Air Sealing Technology from AeroSeal



AeroBarrier X1

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 10 April 2019

Revision date: 07 June 2019

Supersedes : 13 May 2019

Version: 1.2

SECTION 1: Identification

1.1. Identification

Product form : Mixture
Trade name : AeroBarrier X1

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Sealant

1.3. Supplier

Aeroseal LLC
7989 South Suburban Road
Centerville, OH 45458
T:1-877-349-3828

1.4. Emergency telephone number

Emergency number : 877-349-3828 Mon-Fri 8:00am-5:00pm

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

Not classified

2.2. GHS Label elements, including precautionary statements

GHS US labeling

No labeling applicable

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Water	(CAS-No.) 7732-18-5	50 – 70	Not classified
Acrylic Polymer	TSRN 51721300-5277P	20 - 40	Not classified
Silica, amorphous	(CAS-No.) 7631-86-9	1 – 5	Not classified
Propylene Glycol	(CAS-No.) 57-55-6	1 – 5	Not classified

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a poison center or a doctor.

First-aid measures after skin contact : Wash off immediately with soap and plenty of water. Seek medical attention if irritation develops.

First-aid measures after eye contact : Rinse with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if irritation develops.

First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Get medical advice/attention.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

Symptoms/effects after skin contact : Not expected to present a significant skin hazard under anticipated conditions of normal use.

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- Symptoms/effects after eye contact : Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
- Symptoms/effects after ingestion : Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : None known.

5.2. Specific hazards arising from the chemical

- Fire hazard : On combustion, forms: carbon oxides (CO and CO₂).
- Explosion hazard : No direct explosion hazard.

5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Exercise caution when fighting any chemical fire.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

- Emergency procedures : Ventilate spillage area.

6.1.2. For emergency responders

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Dispose in a safe manner in accordance with local/national regulations.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". For disposal of residues refer to section 13: "Disposal considerations".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep cool.
- Incompatible materials : None known.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Water (7732-18-5)		
Not applicable		
Acrylic Polymer (TSRN 51721300-5277P)		
Not applicable		
Silica, amorphous (7631-86-9)		
ACGIH	ACGIH TWA (mg/m ³)	10 mg/m ³ (biologically inert, insoluble or poorly soluble particles - inhalable particles)

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Silica, amorphous (7631-86-9)		
IDLH	US IDLH (mg/m ³)	3000 mg/m ³
NIOSH	NIOSH REL (TWA) (mg/m ³)	6 mg/m ³
1,2-Propanediol (57-55-6)		
AIHA	WEEL TWA (mg/m ³)	10 mg/m ³

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

8.3. Individual protection measures/Personal protective equipment

Hand protection:

Impermeable protective gloves

Eye protection:

Chemical goggles or safety glasses

Respiratory Protection:

Use full-face respirator when exposed to spray in an enclosed area.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: White, milky
Odor	: Characteristic
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Not applicable.
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

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10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

On combustion, forms: carbon oxides (CO and CO₂).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal)	: Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation)	: Not classified (Based on available data, the classification criteria are not met)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Not classified (Based on available data, the classification criteria are not met)
Respiratory or skin sensitization	: Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity	: Not classified (Based on available data, the classification criteria are not met)
Carcinogenicity	: Not classified (Based on available data, the classification criteria are not met)
Reproductive toxicity	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity – single exposure	: Not classified (Based on available data, the classification criteria are not met)
Specific target organ toxicity – repeated exposure	: Not classified (Based on available data, the classification criteria are not met)
Aspiration hazard	: Not classified (Based on available data, the classification criteria are not met)
Viscosity, kinematic	: No data available
Likely routes of exposure	: Ingestion. Inhalation. Skin and eye contact.
Symptoms/effects after inhalation	: Not expected to present a significant inhalation hazard under anticipated conditions of normal use.
Symptoms/effects after skin contact	: Not expected to present a significant skin hazard under anticipated conditions of normal use.
Symptoms/effects after eye contact	: Not expected to present a significant eye contact hazard under anticipated conditions of normal use.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : This material has not been tested for environmental effects.

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

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SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated

Transportation of Dangerous Goods

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

No additional information available

15.2. International regulations

CANADA

No additional information available


EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

 **WARNING:** This product can expose you to ethyl acrylate and formaldehyde, which is known to the State of California to cause cancer, and Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

SECTION 16: Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 07 June 2019

SDS US (GHS HazCom 2012)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.