

CertaSpray® X Open Cell Foam

PRODUCT DESCRIPTION

Basic Use: CertaSpray® X Open Cell Foam is a single-application system that passes the AC-377 fire test. When CertaSpray X A-side open cell is mixed with CertaSpray X B-side open cell under pressure in a 1:1 volumetric ratio, they react and expand into a low density, open cell foam with an in-place core density of nominal 0.5 pcf.

Benefits: CertaSpray® X Open Cell Foam does not require an ignition coating when used in applications where an ignition barrier is used, while providing thermal insulation for the interior of buildings and reducing air infiltration through the building envelope.

Applications: The open cell low density foam can be spray-applied into open wall cavities, perimeter joists, cathedral ceilings, garage ceilings, attics and crawlspaces. Product can be installed up to 12" thick in ceilings and walls when covered with a code-approved 15-minute thermal barrier. Product is meant for interior applications. Product must be finished according to local code, and must be applied by a qualified applicator.

Composition and Materials: CertaSpray® Open Cell Foam is a low density, MDI-based polyurethane semi-rigid foam.

Limitations: Foam Plastic Insulation: CertaSpray X Open Cell Foam is defined by the building codes as a foam plastic insulation.

Thermal Barrier: Many building codes require that foam plastic insulation be covered with an approved 15-minute thermal barrier. Consult local building code officials to ensure the application meets local building codes and regulations.

Vapor Retarder: The low density foam described in this specification sheet is not a vapor retarder. Check local building code for climate-specific vapor retarder requirements.

Light Fixtures: The National Electrical Code prohibits installation of any insulation over or within 3" (76 mm) of recessed light fixtures, unless approved insulated ceiling (IC) light fixtures are used.

Maximum Use Temperature: CertaSpray X foam should not be in contact with equipment or materials that have operating temperatures greater than 180°F.

Color: Unique mocha color



INSTALLATION

All application surfaces must be free of oil, grease, dust and debris. Surfaces must be dry prior to application of spray foam. Excess humidity may cause poor adhesion and result in product failure. To avoid overspray, product should not be applied when conditions are windy.

Substrate temperature must reach 40°F prior to application.

START-UP PROCEDURE:

- Ensure the B-side material is mixed thoroughly for **at least 30 minutes** prior to application each day.
- If the B-side material sits overnight within the line, it should be recirculated back into the original CertaSpray X B-side drum to provide a uniform mix of the material.
- **DO NOT BLEND** this product with any other material.
- Material in the line and drum must be CertaSpray X B-side.

IN-USE PROCEDURE:

- Mix material before **AND** during the entire application.
- The mixer **MUST** remain on until work is complete.
- If the application stops and material is not mixed for more than 1 hour, it is required to mix the B-side for 30 minutes prior to start-up. It is also required to recirculate material in the line.
- **DO NOT BLEND** this product with any other material.
- 6" pass thickness

Product Name	CertainTeed CertaSpray® X Open Cell Foam
Manufacturer	CertainTeed Corporation
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Phone	800-233-8990
Fax	610-341-7571 • 610-947-0057
Website	www.certainteeted.com/insulation

TECHNICAL DATA

Applicable Standards

- ICC-ESR-3759

PHYSICAL AND MECHANICAL PROPERTIES

DESCRIPTION	VALUES	
	ASTM METHOD	CERTA-SPRAY X
Core Density, pcf	D1622	0.50
Thermal Resistance (aged)	C518	R-3.6 at 1"
Open Cell Content, %	D2842	>90%
Compressive Strength, psi	D1621	1.0
Tensile Strength, psi	D1623	>3.0
Water Absorption, % by volume	D2842	<35%
Dimensional Stability, 70°C/97°F % RH, 7 days, vol %	D2126	-10.3%
Water Vapor Transmission, perm-inch	E-96	7.7 perm @ 5.5"
Air Permeability, at 3-1/2" thickness, L/s/m²	E283	< 0.02 L/S/m²
Fungi Resistance	C1338	Pass, with no growth

FIRE PERFORMANCE

DESCRIPTION	VALUES	
	TEST METHOD	CERTA-SPRAY X
Flame Spread Index, 4**	ASTM E84	< 25
Smoke Index, 4***	ASTM E84	< 450
Attic Roof	NFPA 286 Appendix X	≤ 11.5"
Attic Vertical Walls	NFPA 286 Appendix X	≤ 11.5"

* The result of the test method may not be indicative of real-life fire performance. All plastic insulation must be separated from the interior building by an approved thermal barrier of 1/2" gypsum wallboard or equivalent thermal barrier material as resulted by the building code.

MATERIAL

The final product yield is dependent on spray conditions and spray techniques.

Typical End Use Properties: The thermal performance values depicted in the chart are achieved at the thickness specified when installed as recommended.

CAUTION: CertainTeed recommends that you consult an HVAC expert and comply with guidelines established by applicable building codes prior to using any closed or open cell spray foam insulation product in an attic retrofit application. If not installed correctly, adding spray foam to a vented attic may significantly impair the performance of the HVAC system and may cause other damage to the building. CertainTeed will not assume any liability or responsibility for any personal injury or property damage occurring as a result of the improper installation of spray foam insulation that is not in accordance with the instructions accompanying the product, that is not in conformance with any applicable building codes, or that is contrary to the advice given by a duly qualified HVAC expert.

HANDLING AND STORAGE

Storage: It is recommended that CertaSpray X-A and CertaSpray X-B drums should be stored between 55-80°F. Keep containers tightly closed and store in a dry, well-ventilated area protected from freezing, rain, direct sunlight and excess heat. The storage life of B-side is up to 6 months and A-side up to 12 months when stored according to the recommended conditions.

Handling: When opening the drums, loosen the cap slowly to release pressure in the drum. Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing aerosols, vapor or mist. Wash skin thoroughly after handling.

The Safety Data Sheet (SDS) for CertaSpray X-A and CertaSpray X-B open cell must be read before using this product.

HEALTH AND SAFETY

The health and safety information in this data sheet does not contain sufficient detail for safe handling in all cases. For detailed safety and health information, refer to the SDS for this product.

AVAILABILITY AND COST

Distributed and sold throughout the United States. For availability and cost contact your local Territory Manager, contractor or distributor, or call CertainTeed Sales Support Group in Valley Forge, PA at 800-233-8990.

WARRANTY

Refer to CertainTeed's Lifetime Limited Warranty for CertaSpray® Foam Insulation (30-50-012).

MAINTENANCE

No maintenance required.

TECHNICAL SERVICES

Technical assistance can be obtained either from the local CertainTeed sales representative, or by calling CertainTeed Sales Support Group in Valley Forge, PA at 800-233-8990.

For assistance in the field, download the CertaSpray Mobile Troubleshooting app (<http://certasprayapp.certainteed.com>).

RECOMMENDED PROCESSING CONDITIONS

DESCRIPTION	VALUES
Preheater Temperature, °F	120 – 145
Hose Temperature, °F	120 – 145
Pressure, psi	1,100 – 1,500
Cream Time, sec	1 – 2
Tack-free Time, sec	4 – 10
# of Passes, Thickness Per Pass, inches	1 pass 6"

OPEN CELL THERMAL PERFORMANCE

THICKNESS		AGED R-VALUE
in	mm	CERTASPRAY X
1	25	3.6
1.5	38	5.4
2	51	7.2
2.5	64	9
3	76	11
3.5	89	13
4	102	14
4.5	114	16
5	127	18
5.5	140	20
6	152	21
7	191	25
8	203	29
9	229	32
10	254	36
11	279	39
12	305	43

CHEMICAL PROPERTIES

	CERTASPRAY X-A	CERTASPRAY X-B
Viscosity at 25°C, cps	150-250	700
Specific Gravity at 25°C, g/ml	1.23	1.20

EMERGENCY CALLS:

CertainTeed Emergency Response Center **800-424-9300**

CHEMTREC—Spills, Leak, Fire **800-424-9300** (in USA and Canada)



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www.certainteed.com <http://blog.certainteed.com>

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