

CertainTeed

Specification Sheet

CertaSpray™ Open Cell Foam



1. PRODUCT NAME

CertainTeed CertaSpray™ Open Cell Foam.

2. MANUFACTURER

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3. PRODUCT DESCRIPTION

Basic Use: CertaSpray Open Cell Foam is a two-component water blown spray foam. When CertaSpray A-side open cell is mixed with CertaSpray 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 0.45–0.55 pcf.

Benefits: CertaSpray Open Cell Foam provides thermal insulation for the interior of buildings and reduces air infiltration through the building envelope.

Applications: The open cell 0.5-pcf foam can be spray-applied into open wall cavities, crawlspaces, perimeter joists, cathedral and garage ceilings. Product must be installed according to local code, and must be applied by a certified applicator.

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

Limitations: *Foam Plastic Insulation:* CertaSpray 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.

Lighting 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) lighting fixtures are used.

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

4. TECHNICAL DATA

Physical and Mechanical Properties*

PROPERTY	ASTM METHOD	VALUE
Core Density, pcf	D1622	0.45-0.55
Thermal Resistance at 75° F, (h-ft ² -°F)/Btu	C518	3.6
Open Cell Content, %	D2842	> 95%
Compressive Strength, psi	D1621	2.4
Tensile Strength, psi	D1623	5.2
Water Absorption, % by volume	D2842	> 30%
Dimensional Stability, 75° F/95% RH, 28 Days, vol%	D2126	< 12%
Water Vapor Transmission, perm-inch	E96	33
Air Permeability, at 5-1/2" thickness, L/s/m ²	E283	0.013
Fungi Resistance	C1338	Pass, with no growth

*The typical properties were obtained on samples produced with a Gussner/Graco H25 spray machine using an air-purged Fusion spray gun. The foam was sprayed at a thickness of approximately 6". Please see Recommended Processing Conditions for additional information.

Fire Performance**

	ASTM METHODS	VALUE
Flame Spread Index, 6"	E84	< 25
Smoke Index, 6"	E84	< 350

**The results 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 required by the building code.

Chemical Properties

	CertaSpray-A	CertaSpray-B
Viscosity at 25°C, cps	150-250	175
Specific Gravity at 25°C, g/ml	1.23	1.10

Recommended Processing Conditions

	VALUE
Preheater Temperature, °F	120 - 135
Hose Temperature, °F	≤ 135
Pressure, psi	1100 - 1500
A/B Volumetric Ratio	1/1
Cream Time*, sec	1-2
Tack-free Time*, sec	4-10
# of Passes, Thickness Per Pass, inches	1 pass 6"

5. 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.

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

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

6. HANDLING AND STORAGE

Storage: It is recommended that the CertaSpray-B and CertaSpray-A 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 chemicals is up to 6 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 MSDS for CertaSpray-A and CertaSpray-B open cell must be read before using this product.

7. 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 Material Safety Data Sheet for this product.

8. 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.

9. WARRANTY

This product is covered by a limited one-year warranty against manufacturer's defects.

10. MAINTENANCE

No maintenance required.

11. 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.

12. FILING SYSTEMS

CertainTeed Pub. No. 30-50-010. Additional product information is available upon request.

THERMAL PERFORMANCE			
THICKNESS		R-VALUE	
(")	(mm)	(h-ft ² ·°F)/Btu	(m ² ·°C)/W
1	25	3.6	0.6
1½	38	5.4	1.0
2	51	7.2	1.3
2½	64	9.0	1.6
3	76	10.8	1.9
3½	89	12.6	2.2
4	102	14.4	2.5
4½	114	16.2	2.9
5	127	18.0	3.2
5½	140	19.8	3.5
6	152	21.6	3.8

Tested in accordance with ASTM C518 and/or C177 at 75°F (24°C) mean temperature



EMERGENCY CALLS:

CertainTeed Emergency Response Center—800-424-9300
CHEMTREC—Spills, Leak, Fire 800-424-9300 (in USA and Canada)

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