

TECHNICAL DATA SHEET

Material Specification Criteria | Project Submittal Data



QUADFOAM® 2.0

QuadFoam 2.0 is a Two Component, 2 lb. Closed Cell, Spray-applied, Rigid Polyurethane Foam System.

QuadFoam 2.0 is a non-puncturing air barrier, vapor retarder and also serves as a radon barrier.

QuadFoam 2.0 reduces airborne dust, pollution and prevents pest infiltration.

QuadFoam 2.0 passed AC 377 (NFPA 286) Appendix X without an ignition barrier.

QuadFoam 2.0 is ASTM C 1029 – Type II Compliant

QuadFoam 2.0 is formulated in three variations Regular, Winter and ArcticSeal™ for extreme cold conditions that lets you keep working all winter long with the “Highest R-Value” and “Highest Yields” in the industry.

Specially Formulated for:

Excellent Adhesion • Extreme Cold Substrates • Extreme Cold Ambient Conditions • No Pullbacks, Shrinking or Cracking • Can Be Sprayed in Three Inch Passes • Adheres to Concrete, Lumber, OSB & Steel • Reduced Gun Cleaning - More Time Spraying • “Dry Fall Technology” Reduced Misting & Overspray.

SPRAY FOAM INSULATION ADVANTAGES:

- Reduces Energy Consumption by up to 50%
- High R-Value Per Inch
- Prevents Air Infiltration
- Prevents Moisture Infiltration
- Improves Indoor Air Quality
- Structural Properties
- Zero ODP
- Contains No Urea Formaldehyde or Carcinogens

TYPICAL PHYSICAL PROPERTIES:

	QUADFOAM® 2.0	TEST
R-VALUE @ 1”	6.5 @ 75°F. / 24°C. 7.4 @ 40°F. / 04°C. *	ASTM C-518
DENSITY	2.0 pcf	ASTM D-1622
CLOSED CELL CONTENT	> 90%	ASTM D-6226
SOUND TRANSMISSION COEFFICIENT	41 (STC)	ASTM E-90-85/E413
AIR PERMEANCE	.001 cfm/ft ²	ASTM E-2178
NOISE REDUCTION COEFFICIENT	.2 (NRC)	ASTM C-423
TENSILE STRENGTH	42 psi	ASTM D-1623
DIMENSIONAL STABILITY	< 12%	ASTM D-2126
COMPRESSIVE STRENGTH	46 psi **	ASTM D-1621
MOISTURE VAPOR	1.0 perm @ 1.5in. .75 perm @ 2in.	ASTM E-96
FUNGI RESISTANCE	No Fungal Growth	ASTM C-1338
FLAMMABILITY	Flame Spread: < 25 Smoke Dev.: < 450	ASTM E-84 Class 1

NOTE: The above values are average values obtained from laboratory experiments and should serve only as guidelines. Free rise core density should not be confused with overall density. Overall densities are always higher than free rise core densities and take into account skin formation, thickness of application, environmental conditions, etc.

* “ When measured at 40°F. mean temperature.”

** “46psi at 2” pass. 36psi at 3” pass.”



QUADFOAM® 2.0

CHARACTERISTICS: AMBIENT TEMPERATURES BETWEEN GRADES

- QuadFoam® 2.0 (Regular Grade) is designed for application with temperatures above 40°F. *
- QuadFoam® 2.0 (Winter Grade) is designed for application with temperatures between 20°F - 65°F. *
- QuadFoam® 2.0 Arctic Seal™ is designed for application with temperatures between 5°F - 45°F. *

*Wind Chill or other conditions may influence your decision on which grade of material you might apply. Physical properties will stay the same.

COST EFFECTIVE:

Passed AC 377(NFPA 286) Appendix X without any ignition barrier.

SEAMLESS INSULATION:

No joints or seams to leak air or water.

Reduces dust, gas, odor and noise penetration.

MONOLITHIC:

Solid, one-piece construction increases structural stability.

SELF-ADHESIVE:

No fasteners needed.

Attaches chemically to wood, metal, tile, pipe, etc.

WATER AND MOISTURE RESISTANT:

Undamaged, closed cell foam will not absorb water.

Helps prevent condensation and mold.

ENVIRONMENTALLY FRIENDLY:

- No CFC's or HCFC's
- No Adverse Impact on Ozone Layer
- Reduces energy and fossil fuel requirements
- Finished product may be recycled or landfill disposed
- Manufactured with rapidly renewable vegetable content
- Contains recycled plastic bottles helping the environment

APPROVAL/COMPLIANCE:

- ICC - ESR 3459 - IAPMO - ES 0272
- ASTM E-84 Class 1
- NFPA 286 AC377 Appendix X
- NFPA 259
2008 Edition, Standard Test Method for Potential Heat of Building Materials
- NFPA 285
Standard Test Method for Evaluation of Fire Propagation Characteristics of Exterior Non-Load-Bearing Wall Assemblies Containing Combustible Components, 2012 Edition
- California Bureau of Home Furnishings - Thermal Insulation
- Greenguard and Greenguard Gold (formally Greenguard for schools)
- QuadFoam is Certified as an ISO 9001 Company
- Tested in accordance to ASTM standards
- QuadFoam® 2.0 is ASTM C 1029 - Type II Compliant

HANDLING PROPERTIES:

(Based on regular grade formulation@ 75°F)

	"A Compound"	"B Compound"
Viscosity, cps	200	680
Specific Gravity	1.23	1.23
Mixing Ratio	50	50

MAXIMUM USE TEMPERATURE: QuadFoam® 2.0 should not be in contact with equipment or materials that have operating temperature greater than 180°F.

PROCESSING INFORMATION: Under normal operation conditions, pre-heater setting and hose heaters should be 110°F - 140°F for most types of plural component 1:1 dispensing equipment to achieve proper atomization of this product. Static spray pressure should be set at 1000 to 1400 psi. Material should be maintained at a minimum temperature of 50 - 60°F. ambient material temperature should be at 60 - 80°F before application. No recirculation. Exact settings may vary depending upon individual machines. Polyurethane foam systems should not be left exposed in occupied interior space and must be protected by a 15 minute thermal barrier.

WARNING: Polyurethane products manufactured or produced from these chemicals may present a serious fire hazard if improperly used or allowed to remain exposed or unprotected. The character and magnitude of any such hazard will depend upon a broad range of factors, which are controlled or influenced by the manufacturing or production process, by the mode of application or installation, and by the function and usage of the particular product. Each person, firm or corporation engaged in the manufacture, production, application, installation, or use of any polyurethane product should carefully determine whether there is a potential fire hazard associated with such product in a specific usage, and utilize all appropriate precautionary and safety measures. This numerical flame spread rating does not reflect hazards presented by this or other material under actual fire conditions.

PROPER STORAGE OF RAW MATERIALS: Shelf life is twelve (12) months from date of manufacture when stored indoors, in the original unopened containers and between the temperatures of 40°-80°F.

TECHNICAL ASSISTANCE: For additional assistance please contact the QuadFoam® Technical Services dept. of Accella™ Polyurethane Systems, LLC. at (844) 922-2355.

DISCLAIMER: To the best of our knowledge, all technical data contained herein is true and accurate as of the date of issuance and subject to change without prior notice. User must contact QuadFoam® to verify correctness before specifying or ordering. We guarantee our products to conform to the quality control standards established by QuadFoam®. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY QUADFOAM® EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

MANUFACTURED BY:

ACCELLA™ POLYURETHANE SYSTEMS, LLC
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EMERGENCY NOTIFICATIONS:

CHEMTREC : Material Leaks, Spills or Fire (800) 424-9300

