

Foam-Control® Plus+®

TECHNICAL DATA & PHYSICAL PROPERTIES

Tech Data

Foam-Control® Plus+®			150	250	400	600
Nominal Density		lb/ft ³	1.50	2.00	2.50	3.00
Density ¹ , min.		lb/ft ³	1.35	1.80	2.40	2.85
Design Thermal Resistance per 1.0 inch thickness	25°	R-Value	4.80	5.00	5.00	5.10
	40°	R-Value	4.60	4.80	4.80	4.90
	75°	R-Value	4.20	4.40	4.40	4.50
Compressive Strength ¹ @ 10% def. min.		psi	15.0	25.0	40.0	60.0
Flexural Strength ¹ min.		psi	35.0	50.0	60.0	75.0
Water Vapor Permeance ¹ of 1.0 in. thickness, max perm			3.5	2.5	2.5	2.5
Water Absorption ¹ by total immersion, max, volume%			3.0	2.0	2.0	2.0
ASTM C 578 Material Type ^{1,2}			Type II	Type IX	Type XIV	Type XV

¹ See ASTM C 578 Standard Specification for complete information

² See UL Certificate AFM-1 for Type II and Type IX. See UL Certificate AFM-9 for Type XIV and Type XV, available from ACH Foam Technologies.

Caution: EPS contains flame retardant; however, it should be considered combustible and not exposed to sources of ignition. Foam-Control® Plus+® flame spread index of less than 25 and a smoke-developed index of less than 450 when tested in accordance with ASTM E84 / UL 723 for densities from 0.70 - 3.0 lb/ft³. Refer to UL certification for complete information.

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Water Exposure

The mechanical properties of EPS are unaffected by moisture. Exposure to water or water vapor has little effect on the thermal performance of Foam-Control® Plus+®.

Adhesives, Coatings, and Chemicals

Solvents which attack EPS include esters, ketones, ethers, aromatic, and aliphatic hydrocarbons and their emulsions, among others. If EPS is to be placed in contact with materials (or their vapors) of unknown composition, pretest for compatibility at maximum exposure temperature. Do not install or use EPS with coal tar pitch, highly solvent extended mastics, or solvent-based adhesives without adequate separation.

Building Code Compliance

Foam-Control® Plus+® meets or exceeds the requirements of ASTM C 578, "Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation." Foam-Control® Plus+® is monitored for Quality Control and Listed by Underwriters Laboratories Inc. The International Code Council Evaluation Service and underwriters Laboratories Inc. recognizes Foam-Control® EPS for building code compliance. See ICC ES ESR-1006 and UL ER 11812-01.

Below-Grade Installation Instructions

- 1 Install Below-Grade Insulation for perimeter, underslab and protection board applications according to design drawings.
- 2 When applied on a vertical surface an EPS compatible adhesive should be used.
Install directly against foundation and below-grade surfaces. Reference building codes for additional installation information.
- 3 Can be used in direct contact with wet concrete, e.g. underslab.
- 4 For optimum performance provide drainage away from insulation and protect from petroleum distillates and long-term exposure to ultraviolet light.
- 5

Strength + Energy Efficiency + Moisture Resistance

Applications

- Perimeter & Underslab Insulation
- Cavity Wall Insulation & Sheathing
- Pre-Cast Concrete Cores
- Green Roofs & Plaza Decks
- Waterproofing Applications

Quality Assurance

Thorough evaluations conducted by ICC-ES, combined with ACH Foam Technologies' strict manufacturing specifications and quality control, assures our customers receive a consistently superior product. ACH Foam Technologies provides quality UL labeled EPS products.

Warranty

Foam-Control® Plus+® comes with a 50-year R-Value warranty. Regardless of thickness, compressive strength or application - the warranty is for 50-years.

Environmental

Well insulated buildings not only perform better, they also reduce greenhouse gas emissions. The energy efficiency of Foam-Control® Plus+® contributes credits to LEED certified projects. EPS contains no ozone depleting agents and is recyclable.



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