



Technical Data Sheet

EARTHFOAM™ 500

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EARTHFOAM™ 500 is a water-blown, two-part, open-cell, agri-based polyurethane spray-in-place foam. It is an eco-friendly foam developed with soy oils, recycled plastics, and non-ozone-depleting substances. It is formulated Naturally Green to be Naturally Sustainable.

EARTHFOAM™ 500 is applied by spraying liquid chemical components onto walls, ceilings, crawl spaces, attics, and floors. It provides superior thermal insulation properties over traditional insulation materials.

EARTHFOAM™ 500 provides energy efficiency by sealing all cracks and voids of the building envelope and minimizes air infiltration. It also provides an excellent sound barrier.

Health and Safety

For detailed health and safety information, refer to the Material Safety Data Sheet for this product.

Warranty

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

Disclaimer

Prior to designing and installing spray polyurethane foam insulation, code officials should be consulted for recommendation and approvals. Code laws vary from state to state and county to county. Polyurethane foam insulation requires a covering with a 15-minute fire-rated thermal barrier (ex. ½ in. gypsum board). Allow proper gas off and cooling time prior to installing coating or covering.

EARTHFOAM™ spray-in-place foam is designed to be applied by professional installers with specialty foam proportioning equipment, heating the material to specified temperatures and pressures.

Technical specifications as shown are intended to be used as general guidelines only. The physical and chemical properties of **EARTHFOAM™ 500** listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

EARTHFOAM™ 500 Physical Properties

Yield per set 16000–17500 board feet (Individual results will vary)

Density	0.5 pcf	ASTM D-1622
Aged "R" Value	3.6 per inch	ASTM C-518
Compressive Strength	2.5 psi	ASTM D-1621
Tensile Strength	5.8 psi	ASTM D-1623
Moisture Vapor Transmission	16 perms @ 1"	ASTM E-96
Sound Transmission Coefficient (STC)	41	ASTM E-90
Flame Spread	< 25	ASTM E-84
Smoke Development	< 450	ASTM E-84
Open Cell Content	> 90%	ASTM D-1940
Fungus Growth	Pass (0 growth rating)	ASTM C-1338

Installation Recommendations

Agitation is required 10–20 minutes prior to use

Storage—Both A/B components between 55°F–85°F

*Not to exceed 100°F

*6-month material shelf life when stored within recommended temperature range

	<u>A Side</u>	<u>B Side</u>
Set Size (A/B Component)	500 lb.	500 lb.
Viscosity @ 25°C, cps	*250+/- (100)	*445+/- (100)
*The weight will vary with variation of raw materials		
Weight / Gallon (75°F)	*10.3 lb. / gal.	*9.3 lb. / gal.
*The weight will vary with variation of raw materials		
Iso: Resin Mix Ratio (by vol)	1:1	
Operation Preheat Temp	115–135°F	115–135°F
Operation Pressures	1100–1500 psi	
Ambient Surface Temp	40°F to 120°F	
Max. Lift per Pass	8" / Pass	

*Allow material to gas off and cool to <100°F before additional passes.

*Always keep unauthorized personnel off job site for 24 hours after application.