

# Core-Fill 500 Foam Insulation: Product & Technical Information

## Product Presentation

Core-Fill 500 Foam insulation is a two component system consisting of Amino-Plast resin and a catalyst foaming agent surfactant. With the proper ratio, the two components together with compressed air produce foam insulation having excellent thermal and acoustic properties. Core-Fill 500 Foam insulation is a superior insulation for use in commercial, industrial and institutional applications. Core-Fill 500 contractors shall be licensed and approved by the manufacturer and shall employ applicators who are properly trained and certified in the use of Amino-Plast Foam Insulation materials and equipment. Core-Fill 500 Foam has been tested by nationally recognized testing and research facilities such as Southwest Research Institute. San Antonio, Texas, Commercial Testing Co., Dalton, Georgia, Chem. Bac Laboratories, Charlotte, N.C. Cerny Environmental Consulting and Technology, Tampa, Florida.

## Technical Presentation

TEST	REFERENCE	REQUIREMENTS	CORE-FILL 500 RESULTS	COMPLY
Thermal Resistivity	D.O.E. (e) (2) H.U.D. 6.2.7	Not Less than 4.0 per inch	@ 74° F 4.5 per inch @ 32° F 4.9 per inch	YES
Fire Safety	D.O.E. (d) (2) H.U.D. 6.2.10	Flame spread not to exceed 25	Fuel contributed 0 Flame spread* 0 Smoke density 5	YES
Fire Wall Rating	ASTM E-119	Minimum 2 hours	4 hours on 8" CMU ** 4 hours on 12" CMU **	YES
Corrosiveness	D.O.E. (e) (3) H.U.D. 6.2.8	Al. Cu. Steel-no perforations Galvanized steel-no pitting Loss in mass not to exceed 0.2g	No perforations No pitting Less than 0.1g	YES
Density	D.O.E. (e) (2) H.U.D. 6.2.7	Dry 0.7 to 0.9 lb/ft 3 Wet 2.5 to 5.5 lb/ft 3	0.8 lb/ft 3 2.7 to 3.3 lb/ft 3	YES
Water Absorption	D.O.E. (e) (2) H.U.D. 6.2.9	Not to exceed 15% No absorption in less than 1 hour	Floating test 3% Droplet test 1 hr. 15 min.	YES
Setting Time	D.O.E. (e) (8) H.U.D. 6.2.2	20 to 60 seconds	21 seconds	YES
Volume Resistivity	D.O.E. (e) (9) H.U.D. 6.2.3	Not less than 5000 Ohm-Cm	43000 Ohm-Cm	YES
Acoustic Properties	A.S.T.M.E90-90	STC Rating 50	STC Rating 53 (equal to sand) OITC Rating 44 (equal to sand)	YES
Water Drainage	D.O.E. (e) (10) H.U.D. 6.2.4	No Leakage	No Leakage	YES
Shrinkage	D.O.E. (e) (11) H.U.D. 6.2.5	Not more than 4.0%	Less than 1%	YES

\* This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

\*\* A two-hour rated 8" or 12" CMU can be improved to four hours when cores are filled with Core-Fill 500 per ASTM E119 testing standard.

## Construction Values

Insulation Value	CONSTRUCTION	"U" VALUE	"R" VALUE	DENSITY OF BLOCK
FOAM CORES	Hollow core concrete block			
	6 inch	.09 / .16	11.1 / 7.1	60/100lbs pcf
	8 inch	.07 / .10	14.2 / 9.1	60/100lbs pcf
	12 inch	.05 / .08	20.0 / 12.5	60/100lbs pcf
FOAM IN CAVITY (wall applications based on "R" value of 4.9 per inch)	10" Cavity Wall	0.07	14.2	
	4" Dense Outer Wythe			
	2" Air Space			
	4" Hollow Inner Wythe			

HOLLOW BLOCK WALLS - U Values provided by National Concrete Masonry Association, Hemdon, VA. Based on a 60 lb block.

Technical information supplied by Tailored Chemical Products, Inc. manufacturer of Core-Fill 500.



100 Loren Ct.  
Sanford, FL 32771  
Phone: 800-683-3155  
or 407-936-0333  
Fax: 407-5853079