



**The Icynene Insulation System<sup>®</sup>**  
Healthier Quieter, More Energy Efficient



**TAILORED  
FOAM**

OF FLORIDA, INC.

COMMERCIAL & RESIDENTIAL



FLORIDA'S ORIGINAL AND LARGEST FOAM INSULATION COMPANY

Core-Fill 500 Masonry Insulation

**Amway**CENTER

INTERLEGEND

AMWAY CENTER — ORLANDO

# Core-Fill 500 Masonry Insulation Information

Manufactured since 1977, Core-Fill 500 masonry insulation is an amino-plast resin and foaming agent surfactant that is injected with compressed air.

## Commonly asked questions regarding installation:

### What is the proper way to install Core-Fill 500?

Core-Fill 500 is installed after all masonry and structural work is in place. A 7/8" hole is drilled in each vertical column of block cells 4' +/- above the floor level. The foam is pressure injected into the cells at over 100 pounds per square inch. This procedure is repeated every 10' +/- (i.e. 14' 24' 34'...) of wall height until the void is completely full. The installer then patches the holes with mortar and scores it to resemble the existing surface.

### Does Core-Fill 500 come premixed from the manufacturer?

Yes, Core-Fill 500 is shipped in liquid form, it is not dehydrated like some products. All dry mix products shrink, which reduces the R-value. The shrunken foam will allow hot, moist air, sound, and bugs to enter the building.



Take a minute to view this short "How It's Made" video. See what sets Core-Fill 500 apart from dry-mix products.

# Advantages of using Core-Fill 500 insulation

### Is Core-Fill 500 more efficient than other masonry wall insulations?

An independent report shows Core-Fill 500 allows less heat to be gained or lost through the wall than 1" or 2" rigid board insulation, loose fill and foam inserts. (Source: Duke Power Company).

### Does Tailored Foam perform its own work or use subcontractors?

Tailored Foam installs 100% of our foam insulation products. All of our lead installers are certified by the chemical manufacturer.

### If a hole is knocked in the block, loose fill will drain out of the wall. Can the same thing happen with Core-Fill 500?

Since Core-Fill 500 becomes solid after it is installed, it will not drain out of the wall.

Core-Fill 500 sealed the opening around the vent pipe, preventing air infiltration into the building. (Excess foam was removed after the photo was taken).



### Can Core-Fill 500 help reduce noise?

Core-Fill 500 has a Sound Transmission Class Rating of 53 in 8" concrete block. (Source: Acoustic Systems).

Like any insulation, rigid board is only effective if properly installed. As one can see in this photograph, the company responsible for installing the rigid board in this project left several areas uninsulated. (This picture does not imply that all rigid board is installed improperly).



When injected into the cores of pre-cast hollow-core concrete panels, Core-Fill 500 thermal and acoustical masonry foam insulation will provide the optimum benefit in thermal insulation and acoustical sound reduction properties. Core-Fill 500 provides the highest

obtainable "R" value per inch of any integral masonry insulation. Furthermore, since Core-Fill 500 fills the core space completely, condensation issues and air infiltration within the cores are virtually eliminated. These superior performance characteristics combined with Core-Fill 500's ease of installation provide the ultimate pre-cast hollow-core insulation system.

Tailored Foam of Florida, Inc.'s large fleet of trucks allows us to better satisfy the needs of all of our customers' project schedules.

Tailored Foam of Florida, Inc. offers the same commercial grade insulation for new or existing block homes.





**Spray Polyurethane Foams - or “SPF’s” for short - are widely accepted as the most efficient way to insulate your new or existing structure. There are two distinctly different types of SPF’s:**

## **Icynene .5lb Open Cell Foam**

Tailored Foam exclusively installs Icynene .5lb Open Cell SPF products (the .5lb signifies the weight of 1 cubic foot of foam when cured). Since 1986, Icynene continues to be the industry leader in open cell foam technology. From Icynene’s classic open cell product LDC 50 - which has been installed in hundreds of thousands of structures worldwide - to Icynene’s renewable resource product LDR 50, Icynene has a product to fit your needs. There are other open cell products available on the market that “claim” to be “just like Icynene”. We made the decision to form a relationship with the manufacturer of the highest quality open cell foam. For that reason, Icynene is the only open cell product that we offer.



## **2lb Closed Cell Foam**



There are numerous manufacturers of 2lb Closed Cell SPF’s in the market (the 2lb signifies the weight of 1 cubic foot of foam when cured). Unlike the open cell product - which is used exclusively for its thermal/air infiltration qualities - these products have been tested for their water/vapor resistance, structural integrity, adhesiveness & thermal insulation. It is for this reason that we have chosen to “mix and match” the most suitable product for our customers specific need. We represent manufacturers whose products can actually triple the uplift of a Miami-Dade conventionally framed roof - WITHOUT NAILS! Imagine “gluing” your roof together into a monolithic structure that will eliminate 99% of water intrusion in the event of storm damage to the roofing material!

## **Thermal & Ignition Barriers**

Tailored Foam will apply the proper barrier as prescribed by the Florida Building Code, pertaining to spray foam insulations. If you need clarification as to the placement of these barriers, please do not hesitate to call one of our building specialists.

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**Whether you are looking for the most economical way to insulate your home’s attic - or your high rise office building - Tailored Foam will match you with the proper product for your specific need.**



# Tailored Foam of Florida, Inc.

## FACTS AND HISTORY

Founded in 1986, Tailored Foam of Florida, Inc. provides architects, contractors, engineers, and government agencies with the most energy efficient, cost effective way to insulate concrete, concrete block, metal buildings, roofs, or precast using foam insulation.

Tens of thousands of new and retrofit projects have been insulated by Tailored Foam of Florida, Inc.

Thousands of those are school and university projects. Exclusive technological advances in our installation equipment have allowed us to create the largest independent foam installation organization in Florida.

Tailored Foam of Florida, Inc. installs a variety of Spray Polyurethane Foams (SPF's). Both .5-lb. open cell SPF and 2-lb. closed cell SPF products are available. Per the SPF manufacturer's recommendation, the necessary ignition barrier or thermal barrier will be applied to meet building code requirements. Core-Fill 500 Thermal Masonry Insulation is used to fill the empty cores of concrete block.

By specializing in the installation of foam insulation, we can guarantee the highest quality workmanship on your projects. Our experts in each function of the planning, bidding and building process can assist you in every phase of construction. Tailored Foam of Florida, Inc. often serves as a liaison between the contractor and architect for value engineered projects. Our staff also includes a licensed Florida General Contractor (CGC #018512).



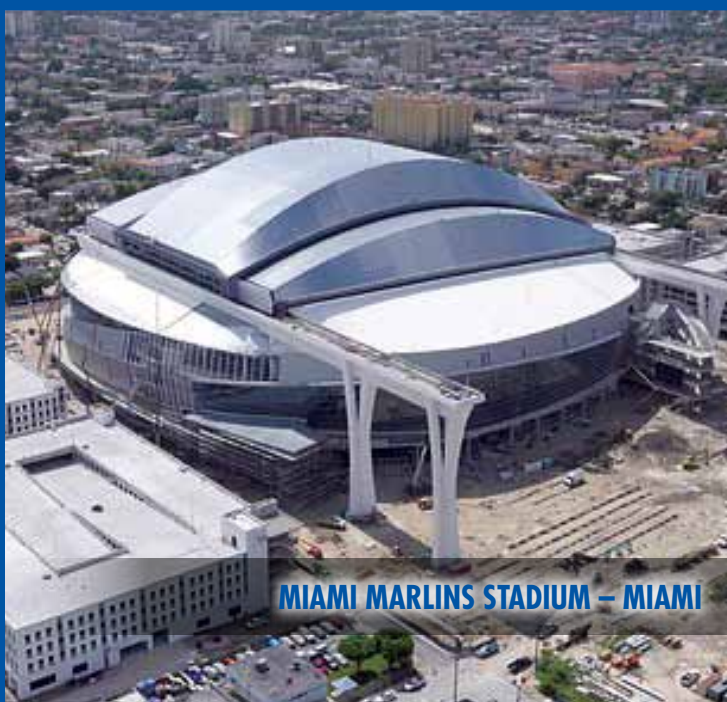
ORANGE COUNTY CONVENTION CENTER – ORLANDO



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FLORIDA SUPREME COURT – TALLAHASSEE



MIAMI MARLINS STADIUM – MIAMI

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Serving Florida and the southern third of Georgia



# MATERIAL SAFETY DATA SHEET

FOR COATINGS, RESINS AND RELATED MATERIALS

(Approved by U.S. Department of Labor "Essentially Similar" to Form OSHA-20)

DATE OF PREP: January 1, 2011

SECTION I				
MANUFACTURER'S NAME:	<b>Tailored Chemical Products, Inc.</b>			
STREET ADDRESS:	<b>3719 1st Avenue SW ( P.O. Box 4186) Hickory, NC 28603</b>			
TELEPHONE #	<b>(828) 322-6512</b>			
EMERGENCY TELEPHONE #	<b>1-800-627-1687</b>	MANUFACTURER'S CODE IDENTIFICATION		
PRODUCT CLASS:	<b>AMINO PLAST FOAM SYSTEM</b>			
TRADE NAME:	<b>Core-Fill 500 Foam Insulation</b>			
SECTION II - HAZARDOUS INGREDIENTS				
INGREDIENT	PERCENT	EXPOSURE LIMITS	LEL	VAPOR PRESSURE
NONE	N/A	N/A	N/A	N/A
SECTION III - PHYSICAL DATA				
BOILING RANGE: N/A	VAPOR DENSITY _ HEAVIER _ LIGHTER THAN AIR			
EVAPORATION RATE _ FASTER _ SLOWER THAN ETHER	PERCENT VOLATILE WEIGHT PER BY VOLUME GALLON: .7 LBS. / cu. foot			
SECTION IV - FIRE AND EXPLOSION HAZARD DATA				
DOT CATEGORY: White Fluffy Foam	FLASH POINT N/A		LEL N/A	
EXTINGUISHING MEDIA: N/A				
UNUSUAL FIRE AND EXPLOSION HAZARDS: MATERIAL WILL NOT BURN UP TO 1200 DEGREES FAHRENHEIT.				
SPECIAL FIRE FIGHTING PROCEDURES: NONE.				

The information contained herein is furnished without warranty of any kind, except that it is accurate to the best knowledge of the manufacturer or obtained from sources considered to be accurate and the manufacturer does not assume any legal responsibility for the use or reliance upon same. Employees should use this information along with their own determinations to assure proper use and the safety and health of employees.

**SECTION V - HEALTH HAZARD DATA**

EXPOSURE LIMITS: N/A

EFFECTS OF OVEREXPOSURE;

EYES: CONTACT WITH FRESH FOAM MAY CAUSE PRIMARY EYE IRRITATION

SKIN: N/A

INHALATION: N/A

INGESTION: N/A

EMERGENCY AND FIRST AID PROCEDURES:

EYES: WASH OUT WITH COPIOUS QUANTITIES OF WATER

SKIN: NORMAL SOAP AND WATER

**SECTION VI - REACTIVITY DATA**

STABILITY  UNSTABLE  STABLE CONDITIONS TO AVOID:

INCOMPATIBILITY (Materials to avoid): STRONG ACIDS

HAZARDOUS DECOMPOSITION PRODUCTS: AMMONIA, CARBON DIOXIDE, OXIDES OF NITROGEN

HAZARDOUS POLYMERIZATION:  MAY OCCUR  WILL NOT OCCUR

CONDITIONS TO AVOID: STRONG ACIDS

**SECTION VII - SPILL OR LEAK PROCEDURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SWEEP UP FROM AREA AND CONTAIN IN PLASTIC GARBAGE BAGS

WASTE DISPOSAL METHOD: DISPOSAL MAY BE IN LANDFILL ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS.

**SECTION VIII - SPECIAL PROTECTION INFORMATION**

RESPIRATORY PROTECTION: NONE REQUIRED

VENTILATION: NONE REQUIRED

PROTECTIVE EQUIPMENT OF CLOTHING REQUIRED: N/A

EYE PROTECTION: GOGGLES RECOMMENDED WHEN INSTALLING

OTHER PROTECTIVE EQUIPMENT: N/A

**SECTION IX - SPECIAL PRECAUTIONS**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: NONE REQUIRED

OTHER PRECAUTIONS:



# 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
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 <sup>3</sup> Wet 2.5 to 5.5 lb/ft <sup>3</sup>	0.8 lb/ft <sup>3</sup> 2.7 to 3.3 lb/ft <sup>3</sup>	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

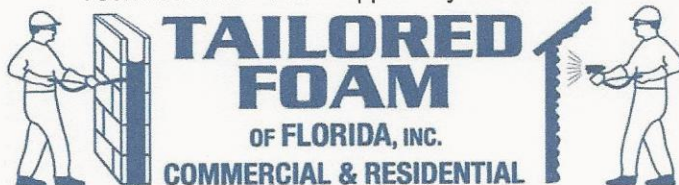
\* This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

## Construction Values

Insulation Value	CONSTRUCTION	"U" VALUE	"R" VALUE
FOAM CORES	Hollow core concrete block		
	6 inch	0.09	11.1
	8 inch	0.07	14.2
	12 inch	0.05	20.0
FOAM IN CAVITY (wall applications based on "R" value of 4.9 per inch)	10" Cavity Wall 4" Dense Outer Wythe 2" Air Space 4" Hollow Inner Wythe	0.07	14.2

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

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



[www.tailoredfoaminc.com](http://www.tailoredfoaminc.com)

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