

# CORE-FILL 500™

## FOAM INSULATION



Core-Fill 500™ is a thermal and acoustical amino-plast masonry foam insulation with superior R-values, excellent sound absorption characteristics and enhanced fire-safety performance.

Economical alternative to loose-fill and rigid insulation products.

Applications Include:

- Concrete Block
- Masonry Cavity Fill
- Precast Hollow-core Panels
- Hollow Steel Tubes



Certified by Underwriters Laboratories Inc. as to Surface Burning Characteristics; Core-Fill 500™, manufactured by Tailored Chemical Products, Inc.

**To learn more,  
call 800-627-1687**

[www.core-fill500.com](http://www.core-fill500.com)

**TAILORED**  
CHEMICAL PRODUCTS, INC.

## DESCRIPTION

Core-Fill 500™ is a superior insulation material for use in commercial and industrial construction and has excellent thermal and acoustic properties. It is a two-component system consisting of amino-plast resin and a catalyst foaming agent surfactant.

These two components, when properly ratioed and propelled by compressed air, produce a foam insulation having the appearance of shaving cream.

## PERFORMANCE CHARACTERISTICS

Core-Fill 500™ is fire-rated as a Class A building material for use in the filling of cores in concrete masonry blocks, cavity walls and between brick and block.

It sets cold in 10 to 60 seconds after leaving the hose nozzle and does not expand any further, allowing enclosed spaces to be filled without pressure build-up. Before setting, the foam flows easily to fill the total cavity, regardless of its shape or the presence of obstructions such as pipes, wires and electrical boxes. It may also be troweled into open areas if desired.

## ADVANTAGES

Core-Fill 500™ offers proven performance as an insulating material. It combines a high 'R' value with the unique ability to completely fill and seal voids, a true advantage when dealing with masonry construction. It deadens sound very efficiently.

Because it is applied under pressure, the foam fills irregular spaces with ease. Core-Fill 500™ does not settle like vermiculite or EPS beads, thus remaining effective for the entire life of the building.

Most important, it is cost-competitive with any other insulation method.

Core-Fill 500™ easily complies with all relevant codes, standards and testing (DOE, EPA, ASTM and others). Because it contains no polystyrenes, polyisocyanurate, or polyurethanes, it offers superior fire safety characteristics. It does not contain or emit CFC's or HCFC's.

**Core-Fill 500™ is activated on-site and pumped under pressure into the wall cavity, pipe chase or interwall space.**

**Core-Fill 500™ has been installed in over 100,000 installations and \$100 billion in new construction.**

Core-Fill 500™ is easily applied in new and existing construction.

1. A series of small holes are drilled into the mortar.

2. The foam flows through the entire cavity and web.

3. Holes are patched once the wall is completely filled.

Core-Fill 500™ can also be pumped into a wall or cavity from the top of the uncapped wall.



In a typical day, one crew can fill up to 8,000 square feet of wall space with Core-Fill 500™, a speed much higher than alternative methods.



Core-Fill 500™ was installed into 350,000 square feet of masonry in the Washington Redskins Stadium.

### APPLICATION

No surface preparation is required. The foam is mixed and then applied continuously from the applicator hose. One of the greatest advantages of Core-Fill 500™ foam insulation is that it is typically installed after wall sections have been completed. This allows the mason contractor to work uninterrupted thus shortening construction times and production costs.

When wall sections have been completed, sealed or closed, Core-Fill 500™ is pumped into each cavity through a small hole drilled into the mortar joints around the entire wall area approximately 5' from the floor level. This method is typically repeated in lifts of approximately 10' until the wall is filled.

### SUGGESTED USES

Core-Fill 500™ is an essential part of any construction project that values long-term energy savings and acoustic shielding. It has been specified again and again by the architects for such companies as Wal-Mart, Sam's Club, Costco, Aldi, Safeway, Kroger, Publix, Ingles, Harris Teeter, Food Lion, Advance Auto, Lowes Foods and Lowe's Home Improvement.

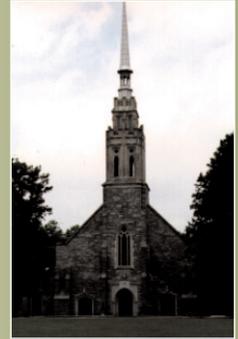
It has been installed in schools, churches, prisons, banks, hospitals and manufacturing facilities. Use Core-Fill 500™ wherever an insulated vertical space is of importance to the finished project.

### USAGE NOTES

Although easily applied and light in weight, Core-Fill 500™ is not recommended for ceiling or attic applications. It will not support compressive loads nor should it be used for flotation. Do not use in overhead applications or underground as a vapor barrier.



Hollow-core, pre-stressed concrete panels.



Architects are increasingly specifying Core-Fill 500™ in new school and church construction.



Wal-Mart and Lowe's Home Improvement specify Core-Fill 500™ in all their new stores nationwide.

### CORE-FILL500™ FOAM INSULATION

- An amino-plast foam insulation that completely fills irregular and hard-to-reach spaces.
- Can be installed in both new and existing construction.
- Excellent thermal performance and enhanced sound abatement qualities.
- Economical and effective alternative to loose-fill and rigid insulation products.
- No settling or expansion after installation.
- Superior flame spread & smoke developed rating (Class A).
- Seals against air infiltrations.

[www.core-fill500.com](http://www.core-fill500.com)

# CORE-FILL 500™ THERMAL & ACOUSTICAL FOAM INSULATION MEETS OR EXCEEDS ALL PERTINENT TESTS, CODES AND STANDARDS



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## THERMAL PERFORMANCE PROPERTIES:

R-Value per inch:	"R" = 4.9 / inch @ 32°F
R-Value range of 8" CMU Insulated Wall:	"R" = 8.0 to 12.0 <sup>1</sup>
R-Value range of 12" CMU Insulated Wall:	"R" = 10 to 16.0 <sup>1</sup>

<sup>1</sup>Thermal performance is portrayed to reflect typical installed conditions based upon accredited laboratory testing as well as industry accepted engineering calculations. "R" values vary based on density of the block.

## FIRE SAFETY PERFORMANCE:

Class A/ Class I Fire Rated per	Flame Spread - 0*
ASTM E-84 performed by	Smoke Developed – 5
Underwriter's Laboratory:	Fuel Contribution - 0

\* Flame spread values are not intended to reflect hazards presented by this or any other material under actual fire conditions.

## ACOUSTICAL PERFORMANCE PROPERTIES:

Core-Fill 500™ Foam Insulation Installed in 8" CMU:	STC 53 / OITC 44 <sup>2</sup>
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<sup>2</sup> Tests performed by Acoustic Systems of Austin, Texas

## QUALITY ASSURANCE

Core-Fill 500™ contractors are licensed and approved by Tailored Chemical Products, Inc. All installers are trained and certified in the use of Core-Fill 500™ materials and equipment.

## ARCHITECTURAL INFORMATION

Additional information and specifications for Core-Fill 500™ Thermal and Acoustical Foam Insulation are available in a variety of downloadable formats for your convenience at [www.core-fill500.com](http://www.core-fill500.com).

**For more information or the name of the certified installer nearest to you, call (800) 627-1687**

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