THE VERSATILE INSULATION SYSTEM FOR RESIDENTIAL, COMMERCIAL AND INDUSTRIAL APPLICATIONS

SPRAY APPLY INSULATION TO SURFACE WITHOUT MESS AND OVERSPRAY OF CONVENTIONAL SYSTEM

FIBERIFFIC® is an innovative new system used for applying insulation to various surfaces for thermal and acoustic benefits. Application includes metal buildings, rim joists, block walls, pipe chases, retrofitting and much more.

The patented technology by Ark Seal International internally combines a non-toxic foaming adhesive with ordinary insulation fibres, creating insulation with the same consistency as shaving cream foam . You get a clean, easy job with virtually no loose airborne fibres, overspray or clean up.

Using ordinary insulation fibres, the patented mixing mechanism mixes them with compressed air and environmentally-friendly binder creating a foaming effect. Acting as a carrier, the bubbles burst, encapsulating each individual fibre. This process virtually eliminates loose airborne fibres during installation. When dried, the fibres adhere to themselves and their surroundings, leaving a custom-fit insulated surface.

FIBERIFFIC®

FIBERIFFIC® PROVIDES:

SIMPLIFIED METHOD. *New and retrofit applications with less masking and clean up work. Unlike conventional messy spray-on systems, installers can work on a Fiberiffic job site while it is being insulated.*

COST SAVING. *The quick, clean installation does not waste time or money. Time-consuming cutting and stapling, gluing or fastening are eliminated. Requiring only two workers to install, FIBERIFFIC® also creates tremendous savings on labour.*

ACOUSTIC PERFORMANCE. *Excellent acoustical properties and flame resistance. Unlike petrochemical-based insulation, FIBERIFFIC® is installer and environmentally friendly, more affordable and easier to install.*

FLEXIBLITY. *It is available to contractors as a self contained machine or can be added to most insulation blowing machines as a licensed accessory.*

EFFICIENT. *By creating a custom-fit insulation, FIBERIFFIC® enhances thermal properties by preventing warm or cold air from seeping out through any voids. In addition, it improves acoustical properties because the entire building space is completely custom fit with insulation.*

IMPROVEMENT OVER STANDARD METHODS. *In addition to standard applications, FIBERIFFIC® fills odd-shaped spaces that cannot be insulated using batts. Because of its foam-like consistency, FIBERIFFIC® can flow around pipes and electrical wires in wall cavities providing substantial improvements to heating, ventilation and plumbing systems.*

ELIMINATES WEATHER RELATED PROBLEM. *Because it is applied after the building's skin is in place, concerns about weather-related damage are eliminated by using FIBERIFFIC®.*

POLY GLASS FIBRE Insulation

PGF Insulation Sdn. Bhd. (228905-M)
Penang Office : No. 2449, Lorong Perusahaan Sepuluh, Kawasan Perusahaan Perai, 13600 Perai, Penang, Malaysia
T: +604 390 8460 F: +604 399 6197
KL Office : 46-2, Block D, Zenith Corporate Park, Jalan SS7/26, 47301 Petaling Jaya, Selangor Darul Ehsan
T: +603 7886 0074 F: +603 7886 077
E : sales@polyglass.com.my W: www.polyglass.com.my

Sustainable Insulation · Save Energy

APPLICATIONS:

JOIST SEAL
All builders realise the value of caulking windows and a door, yet sealing the rim joists is just as important for home energy savings and comfort. While conventional methods require labour intensive caulking, cutting, fitting and hanging, FIBERIFFIC® provides a one step, custom-fit solution.

BATT SEAL
Standard batts can be turned into a custom wall system with FIBERIFFIC®. By first applying a foamy bead around the cavity, the batts can adhere perfectly, eliminating gaps, voids and shifting, especially in metal stud walls. The result is improved performance with minimal labour and material costs. Ordinary batts can be installed by anyone with stapler and knife but batt seal is only available by using FIBERIFFIC®.

CHASE SEAL
Utility chases can be source of heat loss and sound transmission especially where plastic drain pipe is used. FIBERIFFIC® fills these voids, offering thermal insulation, quieting noisy pipes and stopping unwanted sounds.

OTHERS
- ***Curtain Walls***
- ***Metal Buildings***
- ***Cement Blocks***
- ***Rim Joists***
- ***Concrete Foundation Walls***
- ***Between Firring Strips***
- ***Retrofit***
- ***Pre- Fabricated Panels***
- ***Pipe Chases***

FIBERIFFIC® INSULATION TECHNOLOGY FOR NEW AND EXISTING METAL BUILDINGS

FIBERIFFIC® is an ideal system for insulating metal buildings. It provides a fast, easy, seamless alternative to standard metal building insulation. Because it is applied after the building skin is in place, concerns about weather-related damage are eliminated.

FIBERIFFIC® has recently introduced a new patented solution for re-insulating older buildings. A special fabric is attached to the old deteriorating vinyl back insulation. FIBERIFFIC® is then sprayed applied over the fabric.

SUMMARY TESTS OF USING FIBERIFFIC® INSULATION SYSTEM

THERMAL PERFORMANCE :
Thermal Conductivity (ASTM C518)
K-value: 0.033

THERMAL RESISTANCE (ASTM C518)
R-value: 0.8 (25mm thickness)

ACOUSTIC PERFORMANCE (ASTM C-423–90a)
NRC: 1.0 (using 50mm panel)

SOUND TRANSMISSION LOST (ASTM E-90–97)
Sound Transmission Class: 27
50mm FIBERIFFIC® adhered to 24 gauge sheet metal

SOUND TRANSMISSION CLASS: 44
Metal stud wall, 24 gauge metal studs 609mm on the center, 92mm thick, 203mm high, covered with 12.7mm gypsum board, partially filled with FIBERIFFIC®.

SURFACE BURNING CHARACTERISTICS OF BUILDING MATERIALS (ASTM E-84–94)
Flame Spread Index: 0
Smoke Developed Value: 10
Class A Interior Wall and Ceiling Finish category

SMOULDERING COMBUSTION (ASTM C-739–91)
There was no flaming of any specimens. The specimens exhibited charring at ignition area. Ignition was noted at seven seconds along with charring and melting of the specimen directly exposed to the flame. The flame front advanced a maximum distance of two feet at fifteen seconds.

SUBSTRATE DEFLECTION (ASTM E–759)
There was no indication of spalling or delamination of SFRM under the influence of bending stress at a center line deflection of 25mm.

FUNGUS RESISTANCE (ASTM C-655–91)
Does not breed or sustain mold, fungus, bacteria or rodents.

AIR EROSION TEST (UL181 SECTION 17)
No erosion at 400fpm and 1,000 fpm.