

PEST CONTROL INSULATION, LLC  
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## 1. Scope

This specification provides information relevant to the installation of OrkinTherm Pest Control Insulation in attics, walls and floors using pneumatic equipment. OrkinTherm Pest Control Insulation delivers superior R-value per inch, exceptional resistance to air infiltration and superb sound-deadening qualities.

## 2. Components

OrkinTherm Pest Control Insulation contains more than 85% recycled, natural cellulose fiber. A proprietary two-stage process injects dry and liquid fire retardants that penetrate and strengthen the fibers while providing permanent flame resistance. When installed properly and under normal conditions of use, these additives are nontoxic to humans, will not adversely affect other building components, and actually help create an environment that is inhospitable to the labeled insects.

## 3. Purpose

### 3.1 Thermal Insulation

OrkinTherm Pest Control Insulation helps buildings stay warmer in the winter and cooler in the summer by effectively controlling all three methods of heat transfer: convective, conductive, and radiant. Buildings are more comfortable and less expensive to operate and maintain. Research at universities and national laboratories has proven that cellulose can provide up to 50% better performance than fiberglass.

### 3.2 Acoustical Insulation

OrkinTherm Pest Control Insulation provides superior sound attenuation, in large part, because it is blown or sprayed in. This provides a custom fit that eliminates the acoustical shortcuts that are created by batt insulations: gaps and voids in odd shaped cavities and around obstacles such as plumbing, air ducts, and wiring.

## 3.3 Pest Control Insulation

OrkinTherm Thermal, Acoustical, and Pest Control Insulation is a ready-to-use insect control insulation. The product is tested to help control the listed insects (and other arthropods) and is intended to prevent their infestations in building voids (attic, wall, between-floors, crawl space) where the product is applied. Its effect begins only after insect contact with the product. **Controls: Cockroaches, Termites (including Formosan Termites), Ants, Silverfish, Earwigs, Crickets, Sowbugs, Darkling Beetles, Millipedes, Centipedes, and Booklice.** Not recommended as sole protection against termites. Use of this product does not substitute for pre- and/or post-construction mechanical alteration, soil treatment or foundation treatment. For active termite infestations, get a professional inspection.

## 4. National Standards

Cellulose insulation sold in the US must conform to CPSC Standards 16 CFR Parts 1209 & 1404. OrkinTherm Pest Control Insulation also conforms to the requirements of ASTM Standard C739-08. OrkinTherm Pest Control Insulation is tested only by nationally certified, NAVLAP-approved laboratories.

### 4.1 Thermal Resistance

Thermal resistance calculated using ASTM C-518 is R-3.7 per inch.

### 4.2 Non-Corrosive

OrkinTherm Pest Control Insulation is tested and certified to be non-corrosive in accordance with ASTM Standard C-739-08. The test regimen includes aluminum, copper and steel.

### 4.3 Building Codes

OrkinTherm Pest Control Insulation, when properly installed, meets the following building code requirements for thermal insulating materials: BOCA, CABO, ICBO, ICC, SBCCI, & the Model Energy Code.

## 4.4 Fire Safety

OrkinTherm Pest Control Insulation meets or exceeds all necessary fire safety requirements conducted in accordance with ASTM standards:  
Critical Radiant Flux: >0.12 w/cm<sup>2</sup>  
Smoldering Combustion: <15%

## 4.5 Density

As tested by federally required methods, the maximum anticipated density of OrkinTherm Pest Control Insulation after long-term settling of dry application is determined by ASTM C739-08 to be 1.45 lb/ft<sup>3</sup>.

## 4.6 Moisture Absorption

OrkinTherm Pest Control Insulation complies with ASTM Standards that require less than 15% weight gain under test conditions. Normal relative humidity variations do not adversely affect the insulation.

## 4.7 Health and Indoor Air Quality

OrkinTherm Pest Control Insulation does not contain fiberglass, formaldehyde, or other materials associated with increased health concerns.

OSHA cancer warning? No

Contains glass fibers? No

Contains formaldehyde? No

## 4.8 Other Properties

OrkinTherm Insulation meets or exceeds ASTM C739-08 tests for odor emission and fungi resistance.

## 4.9 Sound Control

OrkinTherm Pest Control Insulation is an excellent choice for reducing sound transmission through walls, ceilings, and floors. The following Sound Transmission Class (STC) ratings demonstrate its effectiveness in attenuating noise. The higher the STC number, the greater the reduction in sound.

Cellulose insulated wall: 44 STC

Fiberglass insulated wall: 39 STC

Uninsulated wall: 35 STC



OrkinTherm®

## Pest Control Insulation

U.S. Patent No. 6,578,782 EPA REG. NO. 89140-1

Distributed by Pest Control Insulation, LLC

5285 Mountain Center Plaza Lula, GA 30554 1-866-BUG-PCIS

3 – Insulations – in – 1 MADE FROM RECYCLED PAPER

### ACTIVE INGREDIENT:

ORTHOBORIC ACID.....	12.5%
OTHER INGREDIENTS.....	87.5%
TOTAL.....	100.0%

### FOR USE IN NEW CONSTRUCTION AND RETROFIT APPLICATIONS

- ATTICS • FLOORS • WALLS • CRAWLSPACES •
- OVERLAY FIBER GLASS OR OTHER INSULATION •

### FOR USE IN NEW CONSTRUCTION AND RETROFIT APPLICATIONS

- Helps protect your home environment from annoying insects and other arthropods\*
- Contains 87% recycled paper
- Helps keep you warm in winter & cool in summer
- Permanently guards against flame spread
- Highly resistant to air infiltration
- Helps deaden sound as an acoustical barrier
- This clean-blowing insulation is the result of a patented process.
- HOMES
- APARTMENTS & CONDOMINIUMS
- OFFICES & INDUSTRIAL BUILDINGS
- HOTELS AND MOTELS
- HOSPITALS & NURSING HOMES
- RESTAURANTS
- SCHOOLS

### CAUTION • KEEP OUT OF REACH OF CHILDREN

#### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

#### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a poison control center or doctor for treatment advice.

Have the product container of label with you when calling a Poison Control Center or doctor, or when going for treatment.

#### PRECAUTIONARY STATEMENTS: HAZARDS TO HUMANS AND DOMESTIC ANIMALS:

**CAUTION.** Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE) Applicators, mixers, and other handlers must wear:

- Long-sleeved shirt
- Long pants
- Socks, shoes
- Chemical resistant gloves
- Dust mask or protective respirator
- Dust goggles

**READY-TO-USE** OrkinTherm™ *Pest Control Insulation* is an insect/arthropod control insulation. This product is toxic to listed insects and other arthropods and is intended to prevent their infestations in those building voids (attic, wall, between floors, crawlspace) where the product is applied. Its toxic effect begins only after insect/arthropod contact with product.

**KILLS:** Cockroaches, Termites (including Formosan Termites), Ants, Silverfish, Earwigs, Crickets, Sow bugs, Darkling Beetles, Millipedes, Centipedes, and Booklice.

This insulation contains material toxic to these insects/arthropods and is intended to prevent new infestations in walls and attics where the product is applied. Control of insects/arthropods is limited to contact with insulation.

**DIRECTIONS FOR USE** It is a violation of Federal law to apply this product in a manner inconsistent with its labeling. "R" means resistance to heat flow. The higher the R-value the greater the insulating power. To get the marked R-value, it is essential that this insulation be installed properly. Insulation applicators installing this material should be familiar with and carefully follow installation instructions from the manufacturer.

**NOT FOR SOLE PROTECTION AGAINST TERMITES.** Use of this product does not substitute for pre- and/or post-construction mechanical alteration, soil treatment or foundation treatment. For active Termite infestations, you should consult a licensed pest control operator.

#### EASY AS 1-2-3 Attic Preparation

- Maintain attic ventilation. Insulation should not cover any attic ventilation. Use baffles or vent chutes. Do not cover soffit vents.
- Insulation should not cover or touch heat producing components like light fixtures. Create barriers to maintain a 3" clearance.
- Create a barrier around your attic access to keep insulation in place when entering or exiting attic.

#### FOLLOW INSTRUCTIONS FOR SET UP OF BLOWING MACHINE

1. Position Blowing Machine outside house. Plug in and attach 100' hose.
2. Run hose to attic through nearest access. Avoid tight turns.
3. Blow insulation into attic or on top of existing insulation to desired thickness/R-Value.

**TO HELP AVOID FIRE:** Keep insulation at least three inches away from the sides of recessed light fixtures. Do not place insulation over such fixtures so as to entrap heat. Also keep insulation away from exhaust flues of furnace, water heaters, space heaters, or other heat-producing devices. To be sure that insulation is kept away from light fixtures and flues use a barrier to permanently maintain clearance around these items. Do not install where temperatures may exceed 180°F. Check with local building or fire officials for guidance on installation and barrier requirements.

**REQUEST TO INSTALLER:** Remove bag label and give it to consumer and/or affix in building at completion of job.

**STORAGE AND DISPOSAL:** Do not contaminate water, food, or feed by storage or disposal. **If empty:** Do not reuse or refill this container. Place trash or offer for recycling if available. **If partly filled:** call your local solid waste agency or 1-800-CLEANUP for disposal instructions. Never place unused product down any indoor or outdoor drain.

\*Effective against listed organisms.

