



## Perform Guard® EPS

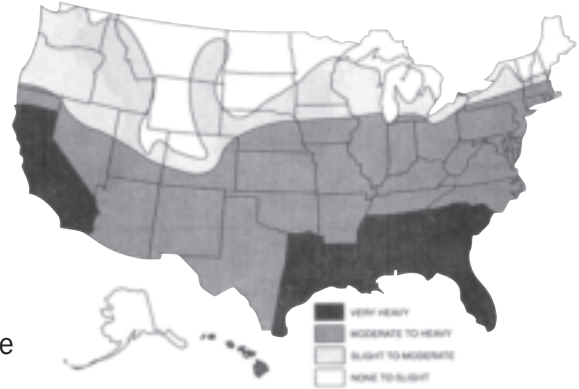
R-Control® Perform Guard EPS is a termite resistant expanded polystyrene insulation for all types of R-Control construction. It is used in Structural Insulated Panels (SIPs), Insulated Concrete Forms (ICFs), Perimeter and Under-slab Foundation Insulation, Geofoam, and other R-Control Building Systems.

- ◆ Resistant to termite damage
- ◆ Non-toxic, safe to handle
- ◆ Incorporates EPA registered material
- ◆ Meets code requirements for ground contact
- ◆ Cost effective

# The Problem

Insulation helps keep people comfortable. Unfortunately, insulations are susceptible to termite infestation. Termites love to live, work and eat in comfortable and protected surroundings. All untreated insulation can potentially provide this environment. Most of the U.S. is susceptible to termite activity. It is important that insulation systems account for potential termite infestation.

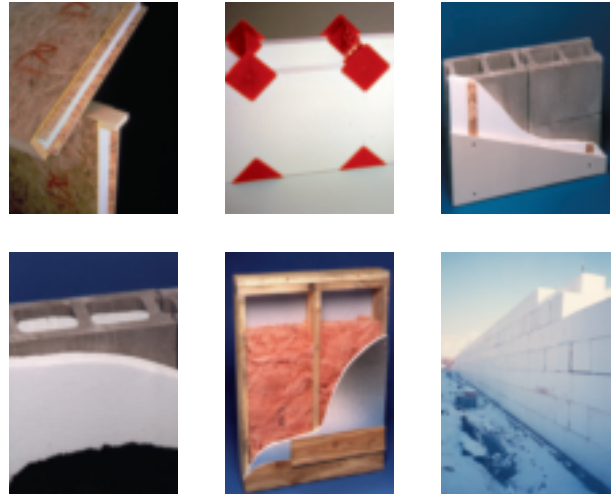
- ◆ Termites reduce insulation & system performance
- ◆ Termites cause problems for structural systems
- ◆ Costs to control termites can continue indefinitely



# The Solution - Perform Guard EPS

R-Control Perform Guard EPS is an important component in preventing this problem. It's made by a patented process using an inorganic mineral that is a natural deterrent to termites. This mineral is incorporated into the insulation during the manufacturing process. It is registered with the Environmental Protection Agency (EPA) for this application. Perform Guard EPS has been thoroughly tested, is safe, noncorrosive and nontoxic. And termites hate it.

Perform Guard is a termite resistant insulation. Perform Guard is not a barrier system, but should be used in conjunction with a total insect management program available from a reputable pest control operator.

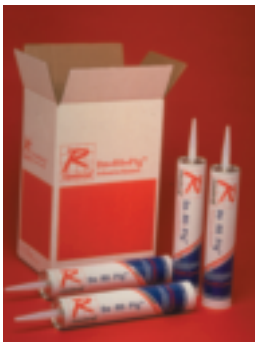


# Applications

Perform Guard EPS must be used in conjunction with approved adhesive/sealants to ensure optimum performance. R-Control Building Systems developed Do-All-Ply® specifically for use with Perform Guard insulation. Do-All-Ply is used to adhere Perform Guard to substrates and fill board joints.

## Below grade application of Perform Guard EPS

All surfaces must be clean, dry, free of dirt, oil, dust and release agents. Remove excess mortar and other irregularities from concrete/masonry wall. Apply continuous layer of Do-All-Ply with 1/4" V-notched trowel over the entire substrate or directly to Perform Guard EPS board. Apply no more Do-All-Ply than can be bonded within 15 minutes. At all joints - apply a continuous 3/8" diameter bead of Do-All-Ply. Ensure the joints between adjacent pieces of Perform Guard EPS are tightly butted together. For Perform Guard EPS ICF Systems, apply at joints in a similar manner. After placement of foam, allow Do-All-Ply to cure for 48 hours before covering with other materials. See Perform Guard EPS installation details for further information.



# Testing

R-Control Building Systems has conducted extensive research to: find an effective non-toxic additive that would deter termites, develop processes for the incorporation of the additive into EPS; and "test prove" and "field prove" the efficacy of the Perform Guard EPS.



Termite exposure tests have been conducted by industry recognized institutions following test standards. Untreated foam insulations are shown in the photos below. Product performance testing has shown how R-Control's Perform Guard EPS resists termite infestation when installed following our recommendations.

Termite Damaged Untreated Foams



# Code Compliant

Perform Guard EPS has been evaluated for below grade use by the ICC ES and meets ICC ES EG239 requirements. Please see ICC ES ESR-1006. For application instructions, please refer to specific guidelines and technical information available from R-Control Building Systems.

# Specification

Specify Perform Guard EPS to ensure the long term performance of your insulation system.

1. GENERAL - The insulation system(s) specified in this division will be comprised of an integrally treated R-Control Perform Guard EPS. Manufacturer must provide data in accordance with ICC ES EG239 showing efficacy of the non-corrosive, non-toxic treatment against termites. Submit ICC ES code report confirming treatment, efficacy, and in-plant quality assurance regarding the R-Control Perform Guard and related systems.
2. PRODUCTS - Furnish the \_\_\_\_\_ (appropriate R-Control Building System) manufactured with Perform Guard EPS treated to resist termites. Perform Guard EPS is manufactured to meet the physical standards of ASTM C578. Provide full systems applications as specified in other sections of the specification. Appropriate listing and approvals for materials and systems must also be maintained. Manufacturer will supply submittal data as required.
3. EXECUTION - Install the R-Control Perform Guard EPS insulation system per drawings and manufacturer's installation guidelines. See detailed specifications for the insulation system shown on the drawings.

# Quality Assurance and Warranty

R-Control Perform Guard EPS is manufactured to Quality Control Program standards monitored by Underwriters Laboratories Inc.® and recognized by national codes. R-Control Building Systems offer product warranties ensuring termite resistance, structural integrity and thermal performance. For complete details, please contact R-Control Building Systems.

## Environmental Advantages

Perform Guard EPS Insulation...

- ◆ Contains no CFCs, HCFCs, or HFCs
- ◆ Contains no formaldehyde
- ◆ Can be recycled
- ◆ Inert, non-nutritive, highly stable
- ◆ Will not decompose, decay or produce gases or leachates

## Availability

R-Control Building Systems is North America's largest provider of Expanded Polystyrene (EPS) Insulation Products and Systems with licensed facilities located throughout North America and the world. Please contact your R-Control Building Systems supplier for design consultation, availability and pricing.

Consult R-Control EPS brochure for additional performance characteristics, physical properties and use limitations.

Industry Affiliations:  
ICFA, EPSMA, NAHB,  
NRCA, SIPA, AIA, SPRI



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