



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
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PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

W.R. Grace & Company
1200 NW 15 Ave.
Pompano Beach ,FL 33069

Your application for Notice of Acceptance (NOA) of:

Bituthene (R) Waterproofing Membrane System

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

Raul Rodriguez
Chief Product Control Division

ACCEPTANCE NO.: 00-0918.08
EXPIRES: 11/09/2003

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 11/09/2000

ROOFING SYSTEM APPROVAL

Category: Roofing
Sub-Category: Waterproofing
Materials: Rubberized Asphalt

Product Control No.: 00-0918.08
Approval Date: November 9, 2000
Expiration Date: November 9, 2003

System Trade Names:

Bituthene® Waterproofing Systems and Hydroduct®

Note: Fire classifications and maximum design velocity pressures are not relevant to this system.

TRADE NAMES OF PRODUCTS MANUFACTURED OR LABELED BY APPLICANT

<u>Product</u>	<u>Product Description</u>
Bituthene® 3000 Waterproofing Membrane	Consists of 1.4 mm of rubberized asphalt and 0.1 mm of cross-laminated, high density polyethylene film.
Bituthene® 4000 Waterproofing Membrane	Consists of 1.4 mm of rubberized asphalt and 0.1 mm of cross-laminated, high density polyethylene film.
Bituthene® System 4000 Surface Conditioner	For use with Bituthene 4000 membrane system. Water-based latex surface conditioner used for all concrete, masonry and wood surfaces.
Bituthene® Solvent-Based Primers	Rubber-based primers in solvent used to prime all concrete, masonry and wood surfaces.
Bituthene® Water-Based Primers	Water-based latex primers used to prime all concrete, masonry and wood surfaces.
Bituthene® Deck Prep® Surface Treatment	A low viscosity, 2-component asphalt-modified coating used to smooth and level rough decks prior to installing the Bituthene waterproofing membrane.
Bituthene® Liquid Membrane	A 2-component, cold-applied trowel grade waterproofing material used to flash corners, form fillets and detail hard-to-reach areas.
Bituthene® Mastic	Rubberized asphalt-based mastic used to seal membrane terminations.
Bituthene® Asphaltic Hardboard	A tough premolded protection board used in horizontal applications to protect the membrane from damage and where positive drainage is not required.


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<u>Product</u>	<u>Product Description</u>
Bituthene® Protection Board Adhesive	Fast drying, rubber-based cement used to adhere polystyrene protection board and insulation.
Bitustik Tape	A 2-sided, highly aggressive adhesive tape that is specially formulated to adhere Hydroduct drainage composites or expanded or extruded polystyrene protection board to the membrane.

EVIDENCE SUBMITTED

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Specification</u>	<u>Date</u>
Simpson Gumpertz & Heger, Inc.		Physical Properties	1992
PRI Asphalt Technologies		Physical Properties	2000


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SYSTEMS

Deck Type 1 Concrete Decks, Insulated, New Construction

Deck Description: Min. 2500 psi, dual slab construction

System Type A: Bituthene® Waterproofing Systems

Surface Condition New concrete shall be water cured and be in place for 14 days minimum. Concrete surface must be smooth, nonolithic and free of voids, spalled areas, loose substrate and sharp protrusions, dirt and debris, and contain no visible coarse aggregate. Repair defects such as spalled or poorly consolidated areas. To smooth and level surface use Bituthene® Deck Prep Surface Treatment. Allow concrete to dry thoroughly following rain.

Properly seal all joints with waterstop, joint filler and sealant as required. Allow sealant to fully cure. Prestrip all slabs and wall cracks over 1/16" wide and all construction and control joints with 9" wide membrane.

(System 4000 only) Bituthene® Surface Conditioner shall be sprayed to prepared surface at a rate of 300ft²/gal. Allow surface to dry completely before membrane application.

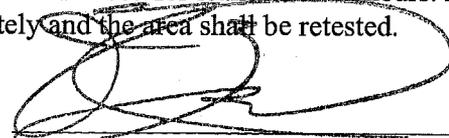
Priming: Apply Bituthene® water-based primer by spray or roller at coverage rate of 500-600 ft²/gal. Other Bituthene® primers shall be applied by lamb's wool roller at a coverage rate of 250-300 ft²/gal. Reprime areas if contaminated by dust.

Surfaces treated with Deck Prep surface treatment do not require conditioning or priming.

Flashing: At the juncture of all vertical sections with the deck surface, such as parapet walls, columns and all projections through the deck, apply membrane on wall and deck to within 1" of corner. Treat the inside corner by installing a 3/4" fillet of Bituthene® Liquid Membrane. Extend Bituthene® Liquid Membrane at least 3" onto deck membrane and wall membrane. Terminate top of membrane wall flashing with Bithuthene® Mastic, Bituthene® Liquid Membrane or termination bar.

Integrity Test: Inspect the membrane thoroughly before covering and make any repairs. Patch tears and inadequately lapped seams with membrane. Slit fishmouths and repair with a patch extending 6" in all directions from the slit and seal edges of the patch with Bituthene® Mastic.

Verify that the structure can support the deadload weight of a watertight test before proceeding. Plug drains and provide necessary barriers to contain flood water. Flood deck with 2" head of water and check for leaks after 24 hours. Any leaks found shall be repaired immediately and the area shall be retested.


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Perform flood test one day after completing the application of Bituthene® Waterproofing System.

Inspection: Inspection shall be witnessed by the Building Official, the building owner's representative, general contractor, architect/engineer, waterproofing contractor.

Surfacing Structural Concrete Slab, minimum 2500 psi. All surfacing shall comply with the applicable Building Code.

General Limitations:

1. A copy of the integrity test described herein in accordance with ASTM 5957, shall be provided to the Building Official at time of final inspection.
2. Fire classification is not part of this acceptance, refer to a current Approved Roofing Materials Directory for fire ratings of this product.
3. All work shall be performed by a Contractor licensed to do roofing/waterproofing . Contractor shall be familiar with the details and specifications published by the manufacturer.
4. Flashings shall be installed according to the manufacturer's published literature, approved by the engineer, shall be submitted to the Building Official for review in compliance with the applicable building code.



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NOTICE OF ACCEPTANCE STANDARD CONDITIONS

- 1 Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documentation, including test supporting data, engineering documents, are no older than eight (8) years.
- 2 Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approved", or as specifically stated in the specific conditions of this Acceptance.
- 3 Renewals of Acceptance will not be considered if:
 - a) There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes;
 - b) The product is no longer the same product (identical) as the one originally approved;
 - c) If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product;
 - d) The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
- 4 Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
- 5 Any of the following shall also be grounds for removal of this Acceptance:
 - a) Unsatisfactory performance of this product or process;
 - b) Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
- 6 The Notice of Acceptance number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the Notice of Acceptance is displayed, then it shall be done in its entirety.
- 7 A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all times. The copies need not be resealed by the engineer.
- 8 Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
- 9 This Acceptance contains pages 1 through 6.

END OF THIS ACCEPTANCE



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Roofing Product Control Examiner