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DEPARTMENT OF
PUBLIC WORKS
Division of
Building Development

Robert W. Wilson
Director

PRODUCT APPROVAL 96-01
April 30, 2003

Division 07: Thermal and Moisture Protection Section 07100: Waterproofing

**Product: House Guard Tru-Dry Manufacturer: Terry Materials, Inc.
8600 Berk Boulevard
Hamilton, OH 45015**

Report: BOCA ES 94-66 (attached)

CONDITIONS

1. House Guard Tru-Dry is approved in accordance with the BOCA ES 94-66 Research Report. If the BOCA Research Report does not remain current, this approval expires.
2. A copy of this approval and the BOCA Research Report must be maintained with the approved construction drawings on-site for the inspector's review.
3. House Guard Tru-Dry is not a replacement or substitution for foundation drain tile.
4. House Guard Tru-Dry may be subject to damage during backfill operations. Therefore, the Certified Load Calculation for the building cannot reference the House Guard Tru-Dry system.


Eric M. Mays, P.E., C.B.O.
Building Official

Cc: Product Approval Folder
Building Plan Review Branch
Construction Inspections Branch

**BOCA
EVALUATION
SERVICES, INC.**

**BOCA RESEARCH REPORT NO.
ES 94-66**

A Participating Member of the NES, Inc.



DIVISION 07 - THERMAL AND MOISTURE PROTECTION

SECTION 07100 - WATERPROOFING

HOUSE GUARD TRU-DRY

**TERRY MATERIALS, INC.
8600 BERK BLVD.
HAMILTON, OH 45015**

1.0 DESCRIPTION OF EVALUATION

House Guard Tru-Dry has been evaluated as an exterior wall waterproofing material for concrete or masonry subsurface foundation walls.

2.0 DESCRIPTION AND USE OF PRODUCT

2.1 GENERAL DESCRIPTION

House Guard Tru-Dry is a polymer-modified, asphalt-based emulsion that is spray or brush applied to concrete or non parged unit masonry surfaces that are prepared as described in Section 4.0 of this report.

3.0 CODE ANALYSIS OF SUBMITTED INFORMATION

The following data were submitted by the proponent for demonstration of compliance with the respective code sections listed above each item of information. The basis is the *BOCA National Building Code/1993*.

3.1 ALTERNATE MATERIALS

Code Section 1813.4.2.2 Wall waterproofing material: This code section requires that any proposed waterproofing material shall be capable of bridging non-structural cracks.

INFORMATION SUBMITTED

Project #TMI-04-03-01, *Laboratory Analysis and Product Evaluation*, dated February 25, 1994, prepared by PRI Asphalt Technologies, was submitted indicating that House Guard Tru-Dry showed no evidence of re-emulsification when applied to an unglazed ceramic tile base and tested in accordance with ASTM D466, *Resistance to Water Action*. Also, when applied to smooth

mortar block surfaces, House Guard Tru-Dry is capable of bridging nonstructural cracks while subjected to a hydrostatic pressure of 7.5 psig (51 kPa).

3.2 SURFACE PREPARATION

Code Section 1813.3.2.1 Surface preparation of walls: This code section prescribes minimum surface preparation requirements for both concrete and unit masonry walls prior to the application of waterproofing. Among these, parging of the unit masonry wall is required unless the waterproofing material is approved for direct application to the unit masonry.

INFORMATION SUBMITTED:

Project #TMI-11-02-01, *Laboratory Analysis and Product Evaluation*, dated October 19, 1994, prepared by PRI Asphalt Technologies, was submitted. The water-resistive characteristics of House Guard Tru-Dry were determined when it was applied directly to unit masonry, including resistance to water action and resistance to hydrostatic pressure while bridging nonstructural cracks. House Guard Tru-Dry showed no evidence of re-emulsification or deterioration after exposure to identical water action resistance testing as described in Section 3.1 of this report. Also, when exposed to identical hydrostatic pressure resistance testing as described in Section 3.1, the House Guard Tru-Dry withstood a slightly greater hydrostatic pressure. These results indicate that the water-resistant properties of House Guard Tru-Dry are retained when the product is applied directly to unit masonry.

4.0 INSTRUCTIONS TO THE CODE OFFICIAL

House Guard Tru-Dry has been evaluated for compliance with the 1993 editions of the *BOCA National Codes*. This report is limited to the applications and products as stated herein. This evaluation is based solely upon information provided to BOCA Evaluation Services, Inc., by Terry Materials, Inc., and has not been independently verified. BOCA-ES intends that this report be used by the code official to determine that House Guard Tru-Dry complies with the code requirements specifically addressed in Section 3.0 of this report, provided that this product is installed in accordance with the following limitations:

Please contact BOCA Evaluation Services, Inc., with any questions you may have regarding this report. Additionally, please contact us if you have any information on the performance of the product described herein which is contrary to this report. This report is subject to the limitations listed herein and to the specific product, data and test reports submitted by the applicant requesting this report. Independent tests were not performed by BOCA Evaluation Services, Inc., and BOCA Evaluation Services, Inc., specifically does not make any warranty, either expressed or implied, as to any findings or other matter in this report or as to any product covered by this report. Evaluation reports are not to be construed as representing aesthetics or any other attributes not specifically addressed nor as an endorsement or recommendation for the use of the subject of the report. This disclaimer includes, but is not limited to, merchantability.

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Limitations

- 4.1 This report is subject to annual certification. Reports that are not certified shall not be used or referred to. In order to determine the status of certification of this report, contact BOCA Evaluation Services, Inc., or consult the latest edition of the *National Product Evaluation Listing* published periodically in the *BOCA Magazine*.
- 4.2 The application of House Guard Tru-Dry is limited to sub-surface walls of concrete or concrete masonry.
- 4.3 When applying House Guard Tru-Dry, ambient and surface temperatures shall be limited to a minimum of 0 degrees F. (-18 degrees C.) to a maximum of 100 degrees F. (38 degrees C.) for a minimum of 24 hours.
- 4.4 House Guard Tru-Dry shall be limited to installation where in service temperatures will be a maximum of 160 degrees F. (71 degrees C.).
- 4.5 The design and construction of the walls required to be waterproofed are not part of this evaluation.
- 4.6 Prior to the application of House Guard Tru-Dry, the surface to be waterproofed shall be prepared in accordance with Section 1813.3.2.1 of the *BOCA National Building Code/1993*.
- 4.7 Joints and penetrations within the wall to be waterproofed shall be made water tight in accordance with Section 1813.4.3 of the code.
- 4.8 The placement of backfill, site grading and erosion protection, with respect to the foundation wall waterproofing, shall be in accordance with Sections 1813.6, 1813.7 and 1813.8 of the code.
- 4.9 The installation of House Guard Tru-Dry, with respect to the elevation of the ground water table, shall be in accordance with Section 1813.4.2.2 of the code.
- 4.10 Contractors installing House Guard Tru-Dry shall be certified by Terry Materials Inc.
- 4.11 The application of House Guard Tru-Dry shall result in a cured film with a minimum thickness of 60 mils (1.5 mm).

4.12 House Guard Tru-Dry shall be installed in accordance with the manufacturer's installation instructions and this report. Application's utilizing installation instructions in conflict with this report are outside the scope of this report.

4.13 The installation of House Guard Tru-Dry on surfaces exposed to ultraviolet radiation is beyond the scope of this report and shall be substantiated utilizing approved methods.

5.0 INFORMATION REQUIRED ON CONSTRUCTION DOCUMENTS

To aid in the use of this report, the following represents the minimum level of information to be reflected on construction documents in order to determine compliance with this research report.

- 5.1 The language "See BOCA Evaluation Services, Inc., Research Report No. 94-66."
- 5.2 The designation of the subsurface material on which House Guard Tru-Dry is being applied.
- 5.3 The maximum elevation of the ground water table in relation to the structure being waterproofed.
- 5.4 The type of backfill material.
- 5.5 Details of joints and penetrations within the surface to be waterproofed.

6.0 IDENTIFICATION

All containers of House Guard Tru-Dry manufactured in accordance with this research report shall be marked at the plant with the identifying language, "See BOCA Evaluation Services, Inc., Research Report No. 94-66."

Reference to this research report is limited to the identification as described herein.