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Legacy report on the 2000 International Building Code®, the 2000 International Residential Code®, the BOCA® National Building Code/1999, the 1999 Standard Building Code® and the 1997 Uniform Building Code™

DIVISION: 07—THERMAL AND MOISTURE PROTECTION
Section: 07140—Fluid-Applied Waterproofing

EVALUATION SUBJECT:

TREMCO BARRIER SOLUTIONS, INC. TUFF-N-DRI®
EXTERIOR FOUNDATION WATERPROOFING
MEMBRANE

REPORT HOLDER:

Tremco Barrier Solutions, Inc.
6402 East Main St., Suite 201
Reynoldsburg, OH 43068
www.tuff-n-dri.com

1.0 SUBJECT

Tremco Barrier Solutions Tuff-N-Dri® Exterior
Foundation Waterproofing Membrane.

2.0 PROPERTY FOR WHICH EVALUATION IS SOUGHT

Foundation Waterproofing Material.

3.0 DESCRIPTION

Tremco Barrier Solutions, Inc. Tuff-N-Dri waterproofing
membrane is a spray-applied foundation waterproofing
material composed of polymer-modified asphalt in a water
carrier that cures to a monolithic, elastomeric membrane.

Tuff-N-Dri is a spray-applied waterproofing that is installed
to a thickness of 63 mils (40 mils dry) on the exterior of
below-grade foundation walls. The material is available in
55-gallon drums, having a density of 8.1 pounds per
gallon. Storage shall be above 50°F. Shelf life is a maxi-
mum of 12 months.

4.0 INSTALLATION

Tuff-N-Dri is designed for use on exterior, below-grade,
foundation walls. It is applied only by a Tremco Barrier
Solutions, Inc. selected waterproofing contractor to ensure
proper installation. The installation shall conform to the
manufacturer's instructions, revised April 2000, and this
report. A primer material is not required prior to application
of the material, and immediate backfill pressure, after
application, is not necessary.

Substrates shall be clean, smooth, firm, free of dust, mud,
loose mortar, wires and any other substances that might
prevent proper placement and bonding. Wall ties shall be
removed and mortar joints shall be flush. Cracks, voids and
holes shall be patched with a nonshrinking grout or asphalt
mastic, with nonshrinking grout preferred for large defects.

Tuff-N-Dri shall only be applied when heated to between
140°F and 160°F and when the air temperature is at least
20°F. The time needed for the coating to cure before
backfilling is 16 to 24 hours; lower air temperatures require
a longer curing time. Application rate of the material is
dependent upon the foundation wall surface; for cast in
place or precast concrete and parged concrete masonry
units, the rate shall be 25 sq. ft./gal. and for concrete
masonry units, 20 sq. ft./gal. Tuff-N-Dri is permitted to be
applied to concrete foundations as soon as the forms are
removed and to concrete masonry unit foundations when
the mortar has cured.

Concrete and masonry shall not be frozen. After applica-
tion, Tuff-N-Dri is limited to no more than 15 days expo-
sure to sunlight prior to backfilling.

5.0 IDENTIFICATION

Each container shall bear the manufacturer's name,
address, and product name and the NES evaluation report
number.

6.0 EVIDENCE SUBMITTED

6.1 Tremco Barrier Solutions, Inc. Tuff-N-Dri® Waterproo-
fing Membrane Detailed Application Instructions,
revised April 2000.

6.2 Report of tests on Tuff-N-Dri® by DL Laboratories,
Report No. DL-8980-R, dated July 13, 1992:

- ! Film thickness
! Tensile strength and elongation
! Durability
! Water-vapor transmission
! Water solubility
! Adhesion in peel
! Hydrostatic pressure
! Low-temperature flexibility
! Crack bridging

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- 6.3 Data on DL Laboratories, dated December 30, 1992.
- 6.4 Letters, dated November 23, 1992 and January 18, 1993.
- 6.5 Report of tests on Tuff-N-Dri® by DL Laboratories, Report No. D2-8980, dated January 14, 1993:
- ! Ability to remain in place
  - ! Tensile and elongation
  - ! Durability
  - ! Flow resistance
  - ! Water solubility
  - ! Adhesion in peel
  - ! Hydrostatic pressure
  - ! Low temperature flexibility and crack bridging
  - ! Weight loss
  - ! Hardness

## 7.0 CONDITIONS OF USE

The ICC-ES Subcommittee for the National Evaluation Service finds that Tremco Barrier Solutions Tuff-N-Dri® Exterior Foundation Waterproofing Membrane is an alternative material to that specified in the 2000 *International Building Code*®, the 2000 *International Residential Code*®, the BOCA® *National Building Code/1999*, the 1999 *Standard Building Code*® and the 1997 *Uniform Building Code*™, subject to the following conditions:

- 7.1 Application shall be by a Tremco Barrier Solutions, Inc. selected waterproofing contractor.
- 7.2 Installation shall conform to the manufacturer's instructions, revised April 2000 and this report. A copy of these instructions shall be on the jobsite at all times.
- 7.3 Air temperatures of at least 20°F are required during application.
- 7.4 When the backfill material contains angular stone or sharp objects, protection boards shall be provided over Tuff-N-Dri.
- 7.5 Prior to application over concrete walls, all holes and recesses resulting from the removal of form ties shall be sealed with a bituminous material or other approved method or material.
- 7.6 Following application, the material shall not be exposed to direct sunlight for more than 15 days.
- 7.7 Before application, all walls shall be prepared for waterproofing in accordance with the applicable code.
- 7.8 This report is subject to periodic re-examination. For information on the current status of this report, contact the ICC-ES.