



Legacy report on the BOCA® National Building Code/1999

DIVISION: 07 00 00 — THERMAL AND MOISTURE PROTECTION

Section: 07 11 00 — Dampproofing

REPORT HOLDER:

DEAN ENTERPRISES, INC.

EVALUATION SUBJECT:

DECO PENETRATING CONCRETE SEALER 20

EVALUATION SCOPE

Compliance with the following code:

BOCA® National Building Code/1999

- Section 106.4 Alternative materials and equipment
- Section 1813.3.2.2 Wall dampproofing material

DESCRIPTION

DECO Penetrating Concrete Sealer 20 is a fluid-applied, one-coat liquid silicate coating intended for use as a dampproofing membrane. DECO Penetrating Concrete Sealer 20 is water based and contains no petroleum distillates or volatile organic compounds (VOC) The dampproofing is spray applied to the vertical surfaces of below-grade foundation walls of either parged or nonparged masonry or concrete construction.

CONDITIONS OF USE

This report is limited to the applications and products as stated in this report. The ICC-ES Subcommittee on National Codes intends that the report be used by the code official to determine that the report subject complies with the code requirements specifically addressed, provided that this product is installed in accordance with the following conditions:

- DECO Penetrating Concrete Sealer 20 shall be installed in accordance with the manufacturer's published installation instructions, and this report. When the manufacturer's published installation instructions differ from this report, this report shall be null and void.
- Surfaces of the foundation walls to be dampproofed shall be clean, dry and free of mortar, sand, soil and water. Joints and penetrations of the walls to which DECO Penetrating Concrete Sealer 20 dampproofing is to be applied shall be made watertight in accordance with Section 1813.4.3 of the BOCA® National Building Code/1999.

- Voids in mortar, joints, tie holes and honeycombed areas in the foundation wall shall be filled with an approved material. Where non-shrinking grout is used for filling voids, the grout shall be allowed to cure before proceeding with the membrane application.
- The effect of UV exposure on DECO Penetrating Concrete Sealer 20 is outside the scope of this report.
- The membrane shall be allowed to cure for a minimum of 24 hours after application prior to backfilling.
- This report is limited to evaluation of DECO Penetrating Concrete Sealer 20 applied at minimum dry film thickness of 0.0005 inch (0.01 mm).
- The ambient temperature at time of application shall be between 28 F to 100 degrees F (-2 degrees C to 38 degrees C). DECO Penetrating Concrete Sealer 20 shall not be applied to wet substrates covered with frost, ice or snow.
- DECO Penetrating Concrete Sealer 20 shall not be applied over asphalt or tar based products.
- DECO Penetrating Concrete Sealer 20 shall be applied with a coverage rate of 150 to 300 square feet per gallon depending on the porosity of the receiving surface. Refer to the manufacturer's installation instructions for the appropriate coverage rates for cast-in-place concrete, and concrete masonry unit (parged and unparged) construction.
- Application of the DECO Penetrating Concrete Sealer 20 to uncured ("green") concrete is outside the scope of this report.
- This report is subject to periodic re-examination. For information on the current status of this report, contact the ICC-ES.

ITEMS REQUIRING VERIFICATION

The following items are related to the use of the report subject, but not within the scope of this evaluation. However, these items are related to the determination of code compliance:

- ✓ Placement of backfill, site grading and erosion protection, with respect to the foundation wall dampproofing shall be in accordance with the requirements of Sections 1813.6, 1813.7 and 1813.8 of the BOCA® National Building Code/1999.

- ✓ Detailing of joints and penetrations in the foundation wall shall be in accordance with Section 1813.4.3 of the BOCA® *National Building Code/1999*.
- ✓ Subsoil drainage shall be provided in accordance with Section 1813.5 of the BOCA® *National Building Code/1999*.

INFORMATION SUBMITTED

- United States Testing Company, Inc., Report Number CM93-0131.3R, dated January 12, 1994, containing results of physical testing of the DECO Penetrating Concrete Sealer 20, signed by Robert C. Smith, P.E.
- D/L Laboratories, Report Number DL-8924, dated February 24, 1992, containing results of water repellency testing of DECO Penetrating Concrete Sealer 20 dampproofing, signed by Thomas J. Sliva.
- United States Testing Company, Inc., Report Number CM93-0131.1, dated October 25, 1993 containing results of water vapor transmission testing of DECO Penetrating Concrete Sealer 20, signed by Robert C. Smith, P.E.
- United States Testing Company, Inc., Report Number EN93-0220R, dated March 11, 1994 containing results of water absorption testing of DECO Penetrating Concrete Sealer 20, signed by Robert C. Smith, P.E.
- United States Testing Company, Inc., Report Number EN93-0197R, dated March 11, 1994 containing results of Freeze/Thaw testing of DECO Penetrating Concrete Sealer 20, signed by Robert C. Smith, P.E.
- Manufacturer's published technical data titled, *DECO 20 Clear Penetrating Sealer*, Vol. VI dated June, 2000.

APPLICATION FOR PERMIT

To aid in the determination of compliance with this report, the following represents the minimum level of information to accompany the application for permit:

- The language "See ICC-ES Legacy Report No. 93-04" or a copy of this report.
- Type of foundation wall construction (parged or unparged concrete or masonry).
- Product manufacturer's name and product name.
- Method of application and number of coats to be applied.
- Minimum cured thickness of dampproofing.
- Results of the ground water table investigations in accordance with Section 1813.2 of the BOCA® *National Building Code/1999*.

PRODUCT IDENTIFICATION

All Dean Enterprises, Inc.'s, DECO Penetrating Concrete Sealer 20, or the packaging, manufactured in accordance with this report shall bear the following identification:

- "See ICC-ES Legacy Report No. 93-04."
- The report holder's contact information is the following:

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