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Legacy report on the BOCA® National Building Code/1999 and the 1998 International One- and Two-Family Dwelling Code®

DIVISION: 09—FINISHES

Section: 09960—High Performance Coatings

EVALUATION SUBJECT:

THERMASHIELD™ and ECO-FLEX™ C/G

REPORT HOLDER:

AVTEC Industries, Inc.
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EVALUATION SCOPE

Compliance with the following codes:

BOCA® National Building Code/1999

- # Section 803.2 Classification
- # Section 106.4 Alternative materials and equipment

1998 International One-and Two-Family Dwelling Code®

- # Section 108.1 Alternate materials, methods and equipment
- # Section 318.1 Wall and ceiling
- # Section 318.2 Smoke-developed index
- # Section 318.3 Testing

DESCRIPTION

AVTEC Industries, Inc. THERMASHIELD™ and ECO-FLEX™ C/G are used as coatings for interior finishes. When applied to interior wall and ceiling fiber cement board in accordance with the manufacturer's published installation instructions and this report, the materials have a Class I interior finish classification and a smoke-developed index of less than 450.

THERMASHIELD™ is a single, solvent based component which is applied to the substrate with an airless sprayer to a dry film thickness of 1/16 to 1/4 inch (1.6 to 6.4 mm). Brush or roller applications are suitable for touch-up or small areas. THERMASHIELD™ is available in 5 gallon (18.9 L) pails or 55 gallon (208.2 L) drums.

ECO-FLEX™ C/G is a single, water based component which is applied to the substrate with an airless sprayer to a dry film thickness of 1/32 to 1/4 inch (0.8 to 6.4 mm). Brush or roller applications are suitable for touch-up or small areas. ECO-FLEX™ C/G is available in 5 gallon (18.9 L) pails or 55 gallon (208.2 L) drums.

CONDITIONS OF USE

This report is limited to the applications and products as stated herein. 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 herein, provided that this product is installed in accordance with the following conditions:

- # Installation of AVTEC Industries, Inc. THERMASHIELD™ and ECO-FLEX™ C/G coatings shall be in accordance with this report and the manufacturer's published installation instructions. AVTEC Industries, Inc. shall provide the user of this report with the manufacturer's published installation instructions identified herein. Where the manufacturer's published installation instructions differ from this report, this report shall be null and void.
- # Evaluation of AVTEC Industries, Inc. THERMASHIELD™ and ECO-FLEX™ C/G coatings as an alternative to non-combustible materials or for use as a component of fire-resistance-rated assemblies, or as an alternative to fire retardant-treated wood, is outside the scope of this report.
- # The surfaces of the fiber cement board shall be clean of residual oil, moisture, dust or other contaminants before application of AVTEC Industries, Inc. THERMASHIELD™ and ECO-FLEX™ C/G coatings.
- # Substrates shall be primed with a compatible primer in accordance with the manufacturer's published installation instructions before application of AVTEC Industries, Inc. THERMASHIELD™ coating.
- # Substrates are permitted to be primed with a compatible primer in accordance with the manufacturer's published installation instructions before application of AVTEC Industries, Inc. ECO-FLEX™ C/G coating.
- # Airless sprayers used in the application of AVTEC Industries, Inc. THERMASHIELD™ and ECO-FLEX™ C/G coatings shall be in accordance with the manufacturer's published installation instructions.

ICC-ES legacy reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, Inc., express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

- # Surface temperature of substrates shall be a minimum of 5 degrees F (3 degrees C) above the dew point.
- # At time of application, fluid temperature of THERMASHIELD™ coating shall be between 75 and 80 degrees F (24 and 27 degrees C).
- # At time of application, fluid temperature of ECO-FLEX™ C/G coating shall be between 55 and 80 degrees F (13 and 27 degrees C).
- # Evaluation of AVTEC Industries, Inc. THERMASHIELD™ and ECO-FLEX™ C/G coatings over substrates other than fiber cement board, is outside the scope of this report.
- # Evaluation of paints or other surface coatings or finishes over AVTEC Industries, Inc. THERMASHIELD™ and ECO-FLEX™ C/G coatings, is outside the scope of this report.
- # Installation of AVTEC Industries, Inc. THERMASHIELD™ and ECO-FLEX™ C/G coatings shall be limited to the applications listed in this report subject to the following:
 - ! AVTEC Industries, Inc. THERMASHIELD™ and ECO-FLEX™ C/G coatings are limited to installations where the coating is not subject to physical damage or where subject to repeated washing or scrubbing with strong alkaline solutions.
 - ! AVTEC Industries, Inc. THERMASHIELD™ and ECO-FLEX™ C/G coatings are limited to interior exposure applications over fiber cement board.
 - ! AVTEC Industries, Inc. THERMASHIELD™ coating shall be applied at a minimum coverage rate of 20 ft²/US gal (0.48 m²/L) and to a minimum dry film thickness of 1/16 inch (1.6 mm) for use as a Class I interior finish classification and a smoke-developed index of less than 450 in accordance with the applicable code. To determine that the minimum thickness is achieved, the coating thickness shall be a minimum of 7/64 inch (2.6 mm) as measured with a wet film gauge.
 - ! AVTEC Industries, Inc. ECO-FLEX™ C/G coating shall be applied at a minimum coverage rate of 32 ft²/US gal (0.77 m²/L) and to a minimum dry film thickness of 1/32 inch (0.8 mm) for use as a Class I interior finish classification and a smoke-developed index of less than 450 in accordance with the applicable code. To determine that the minimum thickness is achieved, the coating thickness shall be a minimum of 3/64 inch (1.2 mm) as measured with a wet film gauge.

INFORMATION SUBMITTED

- # Southwest Research Institute Report No. 0106058.01.069a, dated January 13, 2002, containing testing of Therma-shield™ applied to fiber cement boards in accordance with ASTM E84 to determine flame spread and smoke developed indices.
- # Southwest Research Institute Report No. 0106058.01.069b, dated January 13, 2002, containing testing of Eco-Flex™ applied to fiber cement boards in accordance with ASTM E84 to determine flame spread and smoke developed indices.
- # AVTEC Industries, Inc. THERMASHIELD™ installation instructions.
- # AVTEC Industries, Inc. ECO-FLEX™ C/G installation instructions.

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. 22-27."
- # The manufacturer's published installation instructions including the installation, handling, storage and use of this product.
- # Drawing and/or specifications shall include the following:
 - ! A schedule of the area(s) to receive application of the coating(s).
 - ! The surfaces to receive application of the coating(s).
 - ! The minimum thickness and coverage of the coating(s).

PRODUCT IDENTIFICATION

Containers of AVTEC Industries, Inc. THERMASHIELD™ and ECO-FLEX™ C/G coatings, manufactured in accordance with this report shall bear the following identification.

- # "See ICC-ES Legacy Report No. 22-27."
- # Product and manufacturer's name.