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CSI: DIVISION: 09 00 00 — FINISHES
Section: 09 30 00 — Tiling

Product certification system:

The ICC-ES product certification system includes testing samples taken from the market or supplier's stock, or a combination of both, to verify compliance with applicable codes and standards. The system also involves factory inspections, and assessment and surveillance of the supplier's quality system.

Product: AVM SYSTEM 700 WATERPROOF MEMBRANE

Listee: AVM INDUSTRIES, INC.
8245 Remmet Avenue
Canoga Park, California 91304-4133
www.avmindustries.com

Compliance with the following codes:

2024, 2021, 2018, 2015, 2012, 2009, and 2006 *International Building Code®* (IBC)
2024, 2021, 2018, 2015, 2012, 2009, and 2006 *International Residential Code®* (IRC)
2024, 2021, 2018, 2015, 2012, 2009, and 2006 *International Plumbing Code®* (IPC)
2024, 2021, 2018, 2015, 2012, 2009 and 2006 *Uniform Plumbing Code®* (UPC) *
2022 *Uniform Illustrated Plumbing Code-India* (UIPC-India)*
2025, 2020, 2015 and 2010 *National Plumbing Code of Canada®* (NPC)†

**Uniform Plumbing Code is a copyrighted publication of the International Association of Plumbing and Mechanical Officials*

†National Plumbing Code of Canada is a copyrighted publication of the National Research Council Canada

Compliance with the following standard:

ICC-ES AC 115 Acceptance Criteria for Waterproof Membranes Used as Ceramic Tile Underlayment (Date 2003, editorially revised February 2021)
ANSI A118.10-2023, American National Standard Specification for Load Bearing, Bonded, Waterproof Membrane for Thin-Set Ceramic Tile and Dimension Stone Installation

Identification:

Each container of AVM Paste 700 and Additive 7400 shall bear a label with the AVM Industries, Inc., name and address, the product name, the date of manufacture and the ICC-ES PMG certification mark.

Each bag of AVM Aggregate 200 shall bear a label with the AVM Industries, Inc., name and address, the product name, a batch number tied to the date of manufacture and the ICC-ES PMG certification mark.

The fabric reinforcement shall be identified with the AVM Industries, Inc., name and the words "AVM MAT 800" and the ICC-ES report number.

Installation:

Installation of the AVM System 700 membrane must comply with this report and the manufacturer's published installation instructions. The manufacturer's installation instructions must be available at the jobsite at all times during installation.

Surface Preparation: Substrates must be clean and free of all oils, greases and other contaminants. Dry and dusty surfaces must be dampened and swept off. All cracks, joints and corners are treated by covering them with the AVM Mat 800 reinforcing tape embedded into AVM Paste 700. A second layer of AVM 700 reinforcing tape is applied to critical areas subjected to stress or movement. All existing surfaces must be flat or leveled with a minimum slope of one-fourth unit vertical in 12 units horizontal (2 percent slope), and all defects repaired. Newly prepared concrete must be cured 28 days prior to application of the AVM System 700, and the surface must be troweled smooth then textured to a fine broom finish

Application over Concrete Substrate: After preparation of the concrete substrate, AVM Paste 700 is applied to the concrete in three coats with a brush or roller. The first coat is applied at a coverage rate of 1 gallon per 100 square feet (0.41 L/m²). While the surface is wet, AVM Mat 800 reinforcing fabric is embedded into the liquid. The fabric must be overlapped 2 inches (51 mm) at edges and ends. The second coat of paste is then spread over the fabric at a coverage rate of 1 gallon per 100 square feet (0.41 L/m²). The second coat must dry a minimum of two hours (until dry to the touch) before application of the third coat. The third coat of paste is applied at a coverage rate of 0.5 gallon per 100 square feet (0.20 L/m²) and must be allowed to dry a minimum of 12 hours before application of ceramic tile or dimension stone. Membrane dry thickness is approximately 25 mils [0.025 inch (0.635 mm)].

The AVM Crete 6200 protective coating is optional when the membrane is applied over concrete substrates. The protective coating, consisting of Aggregate 200, is field-mixed with 1.0 to 1.25 gallons (3.8 to 4.7 L) of AVM Additive 7400, and is applied to the prepared substrate using a trowel. The protective coating must cure a minimum of 24 hours before application of ceramic tile or dimension stone.

The membrane must not be exposed to direct sunlight for more than 30 days. Ceramic tile must comply with ANSI A137.1. Typical installation details are shown in Figure 1.

Application over Plywood Substrate: After preparation of the plywood substrate, when the AVM System 700 is applied directly over plywood, the first coat is applied at a coverage rate of 1 gallon per 100 square feet (0.41 L/m²). While the surface is wet, AVM Mat 800 reinforcing fabric is embedded into the liquid. The fabric must overlap 2 inches (51 mm) at edges and ends. When the surface of the first coat is dry to the touch, a second coat of the AVM Paste 700 is then applied over the top of the fabric. The second coat is applied at a coverage rate of 1 gallon per 100 square feet (0.41 L/m²). The second coat of AVM Paste 700 must dry a minimum of two hours before the membrane is applied to the substrate with three coats of paste and one layer of reinforcing fabric. The third coat of paste is applied at a coverage rate of 0.5 gallon per 100 square feet (0.20 L/m²) and must be allowed to dry a minimum of 12 hours before application of ceramic tile or dimension stone.

When the AVM System 700 is applied directly to horizontal plywood substrates, AVM Crete 6200 (protective coating) must be applied over the cured membrane to a minimum thickness of 1/16 inch (1.6 mm). The protective coating, consisting of Aggregate 200, is field-mixed with 1.0 to 1.25 gallons (3.8 to 4.7 L) of AVM Additive 7400 and is applied to the prepared substrate using a trowel. The protective coating must cure a minimum of 24 hours before application of ceramic tile or dimension stone.

Models:

The AVM System 700 is a liquid-applied, reinforced waterproofing membrane that cures to a monolithic, elastomeric membrane.

AVM Paste 700: The AVM 700 Paste (liquid) is a ready-to-use, water-base acrylic latex, packaged in 5-gallon (18.9 L) pails. Shelf life is one year from the date of manufacture when stored unopened at temperatures between 50°F and 90°F (10°C and 32°C). The liquid material must not be allowed to freeze.

AVM Mat 800 Fabric Reinforcement (Optional): The AVM Mat 800 reinforcing fabric is a 3.0 oz/yd² (101.7 g/m²) fabric for use as reinforcement in the AVM System 700 membrane. The fabric is provided in 40-inch-wide-by 324-inch-long (1016 mm by 98 755 mm), 1080-square-foot (99.3 m²) rolls.

AVM Mat 800 Reinforcing Tape: The AVM Mat 800 reinforcing tape is a 3.0 oz/yd² (101.7 g/m²) fabric for use in preparing joints, cracks, and corners in the substrate before application of the AVM System 700 membrane. The tape is provided in 6 in. wide by 300 ft. long (152 mm by 91.4 m) rolls.

AVM Crete 6200: The AVM Crete 6200 is a field-mixed cementitious product composed of AVM Aggregate 200 mixed with The AVM Additive 7400.

AVM Additive 7400: The AVM Additive 7400 (liquid) is a ready-to-use, water-based acrylic latex packaged in 5-gal. (18.9 L) pails. Shelf life for the AVM Additive 7400 is one year from the date of manufacture when stored unopened at temperatures between 50°F and 90°F (10°C and 32°C). The liquid material must not be allowed to freeze.

AVM Aggregate 200: The AVM Aggregate 200 is a proprietary mix of cement and sand aggregates, packaged in 50 lbs. (22 kg) bags.

Conditions of Listing:

1. The materials shall be applied in accordance with this report and the manufacturer's published installation instructions. In the event of a conflict between the installation instructions and this report, this report governs.
2. Application is limited to ceramic tile and dimension stone installation on floors, and to use as a shower pan lining.
3. Application over expansion joints is outside the scope of this report.
4. Product is under a quality control program with annual surveillance inspections by ICC-ES.