AVM System 680SF

Vehicular Deck Coating
40 Dry Mils, Low Odor, Urethane

Sections - 071800 / 071816 / 096700 / 096713

Product Name

AVM System 680SF

Manufactured by

AVM Industries, Inc.
8245 Remmet Ave, Canoga Park, CA 91304
888.414.1041 818.888.0050
www.avmindustries.com

Approvals, Codes & Testing

Class A Fire Rating on Concrete, UBC Standard 32-7, ASTM E-108, UL 790, NFPA 256

Product Description

The AVM System 680SF, vehicular deck system is a solvent free, liquid applied, high solids, moisture cured waterproof system. The system utilizes an epoxy primer and one easy to use high tensile, solvent free, aromatic urethane to complete the system. The AVM System 680SF vehicular deck system is a user-friendly application of a low odor coating that is specifically designed to be tough and durable enough to withstand vehicular traffic. It is an elastomeric system designed to expand and contract with normal structural movements. The three coat application saves time and labor. AVM System 680SF vehicular deck system can be applied to protect surfaces against spalling, freeze/thaw damage, and chemicals commonly encountered on vehicular traffic decks. It will not soften in heat nor embrittle in cold. Installed and maintained properly, the AVM System 680SF vehicular deck system will ensure years of service.

Features

- Solvent Free
- Low Odor
- Chemical Resistance
- Recoatable
- Meets California VOC and AQMD Requirements
- Seamless
- Elastomeric
- Waterproof

Typical Uses

- Vehicular Decks
- Over Occupied Space
- Concrete Roofs and Decks
- Walkways and Stairs
- Balconies
- Helicopter Pads

Product Instructions

For complete information associated with the application of all AVM Products, refer to the general guidelines documentation that describes the surface preparation, job conditions, finishing details and other necessary information.

Application

Phase 1: Check area of application to ensure that it conforms to the substrate requirements as stated in the general guidelines documentation. Apply AVM-U-260 or a two-part paste consisting of AVM-U-440SF and AVM-U-50. Bridge the joints, cracks, and flashings with 3" (7.5 cm) Polyester Tape, pushing it into the AVM-U-260 or paste with a trowel. Over Polyester Tape, apply a stripe coat of the AVM-U-260 or AVM-U-440SF and AVM-U-50 mixture and taper it onto the adjacent surface. Mixing ratio is 2 pint of AVM-U-50 to 1 gallon of AVM-U-440SF (0.24 liters per 3.78 liters) or 1 quart AVM-U-50 to 5 gallons of AVM-U-440SF (0.9 liters per 18.9 liters). Do not mix more material than can be used in 20 minutes. Allow the surface to cure for 6 to 8 hours.

Phase 2: Concrete and metal should be primed with AVM Primer U-EBF at a rate of 1 gallon/300 sq.ft. (0.14 liters/m²). Apply using a brush or phenolic core roller. This will result in a 3 dry mils (76 microns) thick membrane. Allow Primer to become tack free before proceeding to Phase 3.

Phase 3: Apply catalyzed AVM I-Guard 246SF to substrate at a rate of ¾ gallon/100 sq. ft. (0.31 liters m²). For best results, use a notched trowel or squeegee. A phenolic core roller may be used but extra care should be taken to prevent air bubbles. Spread mixed AVM I-Guard 246SF evenly over the entire deck resulting in a 11 ± 2 dry mils (279 ± 51microns) thick membrane. Allow AVM I-Guard 246SF to cure before proceeding to Phase 4.

Phase 4: Over ramps, turn radii, and other heavy traffic areas only, apply catalyzed AVM I-Guard 246SF at a rate of 1 gallon/100 sq. ft. (0.41 liters/m²). Immediately broadcast washed, dry, rounded sand, 16-20 mesh (0.0469-0.0331 in.; 1.19-0.841 mm), with 6.5+ Moh's minimum hardness into the wet AVM I-Guard 246SF at the rate of 10 lbs./100 sq. ft. or as required to achieve a slip-resistant finish. This coat will result in an additional 14 ± 2 dry mils (356 ± 51 microns) thick membrane, exclusive of aggregate. Allow AVM I-Guard 246SF to cure before proceeding to Phase 5.

Phase 5: Apply a second coat of catalyzed AVM I-Guard 246SF over the entire surface, including heavy traffic areas, at a rate of ¾ gallon/100 sq. ft. (0.31 liters/m²). Immediately broadcast washed, dry, rounded sand, 20 mesh (0.0469 in.; 1.19 mm), with 6.5+ Moh's minimum hardness over the entire surface at a rate of 10 lbs./100 sq. ft. This coat will result in an additional 11 ± 2 dry mils (279 ± 51 microns) thick membrane, exclusive of aggregate. Allow AVM I-Guard 246SF to cure before proceeding to Phase 6.

Phase 6: Apply the third coat of catalyzed AVM I-Guard 246SF at the rate of 1 gallon/100 sq. ft. (0.41 liters/m²) over the cured AVM I-Guard 246SF with aggregate. This coat will result in an additional 14 ± 2 dry mils (356 ± 51 microns) thick membrane. After 24 hours, allow light foot traffic only. Keep all vehicular traffic off the finished AVM System 680SF vehicular deck system for at least 72 hours.

Optional Fast Cure

The use of AVMglaze Hardener will shorten cure time to 6 to 8 hours for each coat. Recoats should occur 8-12 hours of when surface becomes tack-free.

Sloping, Concrete Repair, Crack Filling

Use AVM Crete 6400 / 6200 and Acripach 5020 / 5010 and approved urethane caulkings.

Finished System

When applied as directed above, the AVM System 680SF vehicular deck system will provide 40 dry mils, (ramps, turn radii, and other heavy traffic areas: 50 dry mils) exclusive of aggregate, of superior waterproofing protection.

Requires a continuous coating application to minimize lines and/or streaking.

Any optional adhesion test is to be performed seven days after product application.

Striping

It is recommended that an Epoxy paint be used for line striping.

Packaging

AVM primer EBF: 2 gallon kits: One 1 gallon can of Part-A Black Liquid and One 1 gallon can of Part-B White Liquid or 10 gallon kits: One 5 gallon pail of Part-A Black Liquid and One 5 gallon pail of Part-B White Liquid.

AVM I-Guard 246SF: 1 gallon cans or 5 gallon pails.

Limitations

The following conditions must not be coated with these system materials: On below grade slabs, on split slabs with buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, suspended pool decks, swimming pools, magnesite, lieghtweight concrete, asphalt surfaces, asphalt overlays and where chained or studded tires may be used.

For ease of application, solvent free materials should be applied in temperatures greater than 60°F (15°C).

Concrete must exhibit 3000-psi minimum strength. Concrete surfaces to be coated must be trowel finished in compliance with the American Concrete Institute (except that hand troweling is not required), followed by a fine hair brooming, left free of loose particles, and shall be without ridges, projections, voids and concrete droppings that would be mechanically detrimental to coating application or function.

New concrete must be cured for 28 days.

Concrete cleaning (see general guidelines).

AVM Deck Coating systems should not be subjected to rising water tables or hydrostatic pressure on slab-on-grade decks.

Equipment should be cleaned with a urethane grade environmentally safe solvent, as permitted under local regulations, immediately after use.

Uncured materials are sensitive to heat and moisture.

The substrate must be structurally sound and sloped for proper drainage.

AVM Industries assumes no liability for substrate defects.

Field visits by AVM Industries' personnel are for the purpose of making technical recommendations only and are not to supervise or provide quality control on the job site.

Warning

The products in this system contain Isocyanates, Epoxy Resin and Curatives.

Please read all information in the general guidelines, product data sheets, guide specifications and material safety data sheets (MSDS) before applying material. Published technical data and instructions are subject to change without notice. Contact your local AVM Industries representative or visit our website for current technical data and instructions.

Limited Warranty

AVM Industries warrants its products to be free of manufacturing defects and that they will meet AVM Industries' current published physical properties. AVM Industries warrants that its products, when properly installed by a state licensed waterproofing contractor according to AVM Industries' guide specifications and product data sheets over a sound, properly prepared substrate, will not allow water migration for a period of one (1) year. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. There are no other warranties by AVM Industries of any nature whatsoever expressed or implied, including any warranty of merchantability or fitness for a particular purpose in connection with this product. AVM Industries shall not be liable for damages of any sort, including remote or consequential damages resulting from any claimed breach of any warranty whether expressed or implied. AVM Industries' Products shall not be responsible for use of this product in a manner to infringe on any patent held by others. In addition, no warranty or guarantee is being issued with respect to appearance, color, fading, chalking, staining, shrinkage, peeling, normal wear and tear or improper application by the applicator. Damage caused by abuse, neglect and lack of proper maintenance, acts of nature and/or physical movement of the substrate or structural defects are also excluded from the limited warranty. AVM Industries reserves the right to conduct performance tests on any material claimed to be defective prior to any repairs by owner, general contractor, or applicator.

Disclaimer

All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the users responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and AVM Industries makes no claim that these tests or any other tests, accurately represent all environments.

Availability and Cost

Contact AVM Industries or your approved applicator for pricing and availability.

Technical Services

Technical services are available by contacting our offices at: **888.414.1041** or **818.888.0050** or visit **www.avmindustries.com**

System Specifications

See below.

Item / Component	Packaging	Approx Shipping Weights	VOC
AVM Primer U-EBFSC	2.0/10.0 gal. Kits	A.11.2 B.17.0 / A.56.2 B.85.0 lbs.	100 Grams/Liter
AVM I-Guard 246SF	1.0/5.0 gal. pails	11.0/53.0 lbs.	2 Grams/Liter

For a complete list of details in CAD or PDF, please visit our website at www.avmindustries.com.

AVM Industries, Inc.
8245 Remmet Ave, Canoga Park, CA 91304
888.414.1041 818.888.0050

Quality Waterproofing Products

www.avmindustries.com