TECH DATA SHEET

Sections - 071800 / 071816 / 096700 / 096713

AVM System 650SC

Pedestrian Deck Coating System
Low Odor, Low VOC Polyurethane

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Product Name

AVM System 650SC

Manufactured by

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

Approvals, Codes & Testing

This system complies with all applicable Federal, EPA, VOC regulations and applicable California Regional Air Quality Regulations and South Coast Air Quality Management District VOC regulations. Meets the performance requirements of ASTM C-957-87, High Solids Contents, Cold Liquid Applied Elastomeric Waterproofing Membrane with Integral Wearing Surface.

Product Description

The AVM System 650SC, pedestrian deck coating system is an easy to install, liquid applied, abrasion resistant, low VOC, Polyurethane waterproof system suitable for surfaces subject to pedestrian traffic. The AVM System 650SC is a monolithic chemical resistant pedestrian deck coating system that can withstand heavy thermal cycling. This elastomeric system is designed to expand and contract with normal structural movements and protect the surfaces against spalling, freeze/thaw damage, and chemicals commonly encountered on pedestrian decks. Installed and maintained properly, the AVM System 650SC pedestrian deck system will provide years of service.

Where to Use

On new or existing Concrete or Plywood Decks.

Warranty:

Contact AVM Industries for warranty details.

Delivery, Storage, and Handling

a. Delivery of all the system materials to the job site must be in their original sealed containers and bags, with manufacturer's name and label intact.

b. Handle and store containers and bags in accordance with printed instructions.

c. Store at temperatures between 50°F and 90°F. Do not store materials in direct sunlight or where they may be damaged by water or rain. Bags must be kept dry!

d. Keep all materials out of the reach of children.

e. If irritation occurs during use, liberally flush affected areas with water. If irritation continues, see a physician immediately.

Installation

Step 1: Preparation and Sloping: Check area of application to ensure that it conforms to the substrate requirements as stated in AVM's System 650 Installation Instructions. If additional sloping is needed, use AVM Crete 6400/6200 as needed to create the necessary slopes. Fill joints, cracks, and flashings with polyurethane sealant (Sika Flex 1A or equal). Recommended; On plywood decks, install a ¼" thick layer of AVM Crete 6400 reinforced with metal lath 2.5 prior to deck coating installation. Recommended; Reinforce sealant with a 6" wide strip of AVM Mat 800 at all joints, cracks, flashings, penetrations and other sensitive areas. For cracks over ¼" wide and/or expansion joints, contact AVM Industries.

Step 2: Epoxy Primer: Concrete and metal should be primed with AVM 680SC-Epoxy Primer (U-680SC-EP) at a rate of 1 gallon/300 sq.ft. Allow Primer to become tack free before proceeding to Step 3. The base coat must be installed within 8 hours of application of the primer. Otherwise, re-prime.

Step 3: Membrane Layer: Apply the AVM 680SC Base Coat (U-680SC-BC) in one or two coats at a minimum rate of 2 gallons per 100 sq.ft., or as needed to achieve a minimum 32 wet mils. Allow the first coat to firm up before applying the second coat. Once Membrane Layer is completed, allow 16 to 36 hours curing time before applying the next coat. (If the base or elastomeric membrane should become dirty or contaminated, or lose their surface tack, wipe clean with xylene, acetone or other safe solvent.)

Step 4: (Aggregate Broadcast Layer): Once the AVM 680SC Base Coat (U-680SC-BC) has cured, apply the AVM 680-SC Aromatic Top Coat (U-680SC-ARTC) by roller, trowel or squeegee in a uniform coat at a minimum rate of 100 sq.ft./Gal (16 wet mils). While the coating is still fluid, uniformly broadcast and thoroughly encapsulate by back-rolling the proper 16 or 20 mesh aggregate into the coating at a rate of 15-25 lbs. of aggregate per 100 square feet. Allow 16 to 36 hours curing time before applying the next layer. Use caution! The proper amount of aggregate must be applied and properly encapsulated.

Step 5: Top Coat: Apply the AVM 680SC Aliphatic Top Coat (U-680SC-ALTC) by roller, spray or squeegee followed by back rolling, in one uniform coat at minimum rate of 100 sq.ft./Gal in order to obtain a minimum coating thickness of 16 wet mils and to completely coat the aggregate.

Optional: To save money, and/or, if color retention is not important, in step 5, Apply AVM 680SC Aromatic Top Coat (U-680SC-ARTC) in lieu of AVM 680SC Aliphatic Top Coat (U-680SC-ALTC)

Quality Control

When applied as directed above, the coating thickness, excluding the encapsulated aggregate, shall average 50 dry mils.

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

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

Protection of Installed Work

The completed section shall be protected from all traffic for the first 24 hours after application and until the surface is sufficiently cured. (The amount of drying time may vary depending on temperature and humidity conditions) Typically, light foot traffic may resume after 4-6 hours.

Maintenance

Contact AVM for Details

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 next page.

Physical Properties

Aromatic Base Coat (AVM Part # **U-680SC-BC**) Single-component, high adhesion, moisture cured, elastomeric polyurethane membrane that meets or exceeds the following properties:

Composition	Aromatic Polyurethane Base Coat	
Weight Solids	92 ± 2%	
VOC Content	Less than 100 Grams/Liter	
Hardness, Shore A	65 ± 5	ASTM D-2240
Tensile Strength	900 ± 100 PSI	ASTM D-412
Ultimate Elongation	550 ± 100%	ASTM D-412
Tear Resistance	150 ± 25 lb./in.	ASTM D-1004
Weather Resistance	Slight Checking @ 500 hours.	ASTM G-23
Adhesion to Primed Concrete	30 Pli	ASTM D-903
Low Temp Flexibility	-30°F	

Aromatic Top Coat (AVM Part # **U-680SC-ARTC**) High Tensile Strength, moisture cured, elastomeric polyurethane Aromatic Top Coat that meets or exceeds the following properties:

Composition	Aromatic Polyurethane Top Coat	
Weights Solid	82 ± 2%	
VOC Content	Less than 10 Grams/Liter	
Hardness, Shore A	90 ± 5	ASTM D-2240
Tensile Strength	3300 ± 300 PSI	ASTM D-412
Ultimate Elongation	225 ± 50%	ASTM D-412
Tear Resistance	300 ± 50 Lb./in.	ASTM D-1004
Weather Resistance	No Chalking @ 500 hours.	ASTM D-822
Adhesion to Base Coat	30 Pli	ASTM D-903

Aliphatic Top Coat (AVM Part # **U-680SC-ALTC**) Single-component high tensile Strength, weather resistant Aliphatic Top Coat that meets or exceeds the following properties::

Composition	Aliphatic Polyurethane Top Coat	
Weights Solid	82 ± 2%	
VOC Content	Less than 10 Grams/Liter	
Hardness, Shore A	90 ± 5	ASTM D-2240
Tensile Strength	3300 ± 300 PSI	ASTM D-412
Ultimate Elongation	225 ± 50%	ASTM D-412
Tear Resistance	300 ± 50 Lb./in.	ASTM D-1004
Water Permeability	Less than 0.1 Perm	ASTM E-96
Weather Resistance	No Chalking @ 2,000 hours.	ASTM G-23
Abrasion Resistance	Negligible Change, CS-17 wheels, 1000 cycles, 1000 gm. Load	ASTM C-501
Adhesion to Base Coat	30 Pli	ASTM D-903

Item	Packaging	Approximate Shipping Weights	Coverages	VOC
U-680SC-EP Epoxy Primer	3 Gal Kit 15 Gal Kit	30 Lbs 144 Lbs	300-350 Sq.Ft./Gal	100 G/L
U-680SC-BC Base Coat	1 Gal Can 5 Gal Bucket	11 Lbs 55 Lbs	50-55 Sq.Ft./Gal	100 G/L
U-680SC-ARTC Aromatic Top Coat	1 Gal Can 5 Gal Bucket	10 Lbs 55 Lbs	100-110 Sq.Ft./Gal	100 G/L
U-680SC-ARTC Aliphatic Top Coat	1 Gal Can 5 Gal Bucket	10 Lbs 52 Lbs	100 Sq.Ft./Gal	100 G/L

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

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Quality Waterproofing Products

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