



# AVM System 620

## Hybrid, Aliphatic, Polyurea Deck Coating System

**Generic Spec**

Section 071800 / 071816 / 096700 / 096713

**Product Name**

AVM System 620

**AVM System No.**

AVM System 620

**By**

AVM Industries, Inc.  
8245 Remmet Ave, Canoga Park, CA 91304  
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**Product Description**

The **AVM System 620**, 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 620-AL** 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 620** pedestrian deck system will provide years of service.

**Where to Use**

On new or existing interior or exterior concrete, plywood decks, and metal surfaces.

**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.
- 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 620 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 Aussie Membrane 520 Pro. Penetrations and larger openings may be filled with Aussie Seal M Sealant. 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 Aussie Membrane 520 Pro with a 6" wide strip of AVM Mat 800 or Mat 570 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 substrates should be primed with AVM Primer 400, Primer 410, or Primer 680 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:** Base Coat: Apply AVM Aussie Membrane 520 Pro (base coat) in one or two coats, or as needed to achieve a minimum 24 mils dry film thickness. (Approximately 26 wet mils) If applying base coat in two coats, first coat must be fully cured and tack free before applying the second coat. Once the base coat is completed, allow 16 to 36 hours curing time before applying the next coat. (If the base coat surface should become dirty or contaminated, or lose their surface tack, wipe clean with xylene, acetone or other safe solvent.)

**Step 4:** Aggregate Binder Coat

**Method 1:** Once the AVM 520 Base Coat has cured, apply the AVM Top Coat 620-AL Aggregate Binder Coat by roller, trowel or notched 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. For proper adhesion between coats, re-coating must be done within 8-12 hours.

**Method 2:** Apply the AVM Top Coat 620-AL Aggregate Binder Coat by roller, trowel or notched squeegee in a uniform coat at a minimum rate of 200 sq.ft./Gal (8 wet mils). Broadcast to refusal the aggregate onto the wet surface of the Aussie 620-AL coat. Cover the entire surface leaving no wet spots and allow to cure for a minimum 12 hours. Sweep up and/or vacuum up any loose or unbound aggregate. Apply the AVM Top Coat 620-AL by roller, trowel or notched squeegee in a uniform coat at a minimum rate of 200 sq.ft./Gal (8 wet mils). Take care to evenly apply the coating with no puddling.

**Curing (Top Coat 620-AL):** At 75°F (24°C) and 50% relative humidity, allow each coat to cure a minimum 2-4 hours. Cure time will vary depending on temperature and humidity. If more than 24 hours passes between coats, reprime surface with AVM Primer 400, Primer 410, or Primer 680.

Allow a minimum 16 hours before permitting light pedestrian traffic and at least 60 hours before heavy traffic. Cure time will vary depending on temperature and humidity.

**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 below and next page.

Item	Packaging	Approx. Shipping Weights	Coverages	VOC
Top Coat 620-AL (Part A & B Combined)	4.4 Gal Kit	45.5 lbs	100 Sq.Ft./Gal	60 g/l
Part-A (Net Contents 4 Gallons / 15.4 Liters)	5 Gal Bucket	-42.0 lbs	—	60 g/l
Part-B (Net Contents 0.4 Gallons / 1.54 Liters)	½ Gal Bucket	- 3.5 lbs	—	60 g/l
Aussie Membrane 520 (base coat)	5 gal. pail	60.0 lbs	125 sq.ft @ 60 mils	75 g/l

## Top Coat 620-AL Technical Information

Property	Top Coat 620-AL Part A	Top Coat 620-AL Part B	Test Method
Mis Ratio by Volume	10A : 1B	10A : 1B	
Dry Film Thickness per Coat	15 ± 2 mils   381 ± 50µ	14 ± 2 mils   356 ± 50µ	
Pot Life @75°F (24°C), 50% R.H.	30 ± 10 minutes	30 ± 10 minutes	
Cure Time @75°F (24°C), 50% R.H.	2-4 Hours	2-4 Hours	
Total Solids by Weight	94 ± 2%	88 ± 2%	ASTM D-2669
Total Solids by Volume	94 ± 2%	87 ± 2%	ASTM D-2697
Hardness	85 ± 5 Shore A	85 ± 5 Shore A	ASTM 2240
Tensile Strength	3200 ± 200 psi   22.1 ± 1.4 MPa	3200 ± 200 psi   22.1 ± 1.4 MPa	ASTM D-412
Ultimate Elongation	450 ± 50%	450 ± 50%	ASTM 412
Adhesive Peel Strength on Primed Concrete	40 ± 10 pli   7.0 ± 1.7 kN/m	40 ± 10 pli   7.0 ± 1.7 kN/m	ASTM D-903
Moisture Vapor Transmission	1.54 perms	1.54 perms	ASTM E-96
Water Absorption	1.3% by weight	1.3% by weight	ASTM D-471
Tear Resistance	300 ± 20 pli   52.6 ± 8.8 kN/m	300 ± 20 pli   52.6 ± 8.8 kN/m	ASTM D-624
Volatile Organic Compounds	<0.12 lb/gal   <15 gm/liters	<0.5 lb/gal   <60 gm/liters	ASTM D-2369-81
U.V. Stability, Q Panel Weather O-Meter (no cracking or crazing; no physical damage)	2000 Hours	2000 Hours	

## Aussie Membrane 520 Base Coat Technical Information

Property	Standard Values	Test Results
Color	Gray	
Coverage (varies depending on substrate)	125 sq.ft/Bucket @ 60 mils	
Service Temperature	-25°F to 177°F (-31°C to 38°C)	
Application Temperature	40°F to 100°F (4°C to 38°C)	
Low Temperature Flexibility	-40°F (-40°C)	No Cracking at -40°F
Tensile Strength (MPa)	≤1.90	2.79
Elongation at Break	≤520%	726%
Tearing Strength (N/mm)	≤12	≤10
Water Impermeability (0.3MPa @ 30 min)	Impermeable	Impermeable
Solid Content	80%+	95%+
Tack Free Time (hours) <sup>1</sup>	≤12	≤10
Curing Time (hours) <sup>2</sup>	≤24	≤20

1. Based on controlled tests. Tack free times will vary based on thickness, temperature, humidity and other job conditions.

2. Based on controlled tests. Cure times will vary based on thickness, temperature, humidity and other job conditions.

## Epoxy Primer 680SC Technical Information

Property	Typical Value	Test Method
Coverage Rate	300-400 ft <sup>2</sup> /gal	
Film Thickness per Coat	4 ± 1 mil	
Shelf Life	12 months	
Specific Gravity	1.05 (Part A)   1.02 (Part B)	
Solids Content (mixed)	92 ± 2%	ASTM D-1353
Viscosity at 24°C (75°F)	150 ± 50 cps (Part A)   300 ± 50 cps (Part B)	
VOC Content	100 g/l	Calculated

## Epoxy Primer 410 Technical Information

Property	Typical Value	Test Method
Coverage Rate	225 ft <sup>2</sup> /gal	
VOC Content	0 g/l	Calculated
Solids Content	100 %	
Compressive Strength	12,000 psi	ASTM D-695
Tensile Strength	5,600 psi	ASTM D-638
Tensile Elongation	2.6%	ASTM D-638
Permeability	.158 perms	ASTM E-96
Adhesion	>480 psi	ASTM D-7234
Microbial Resistance	Passes Rating 1	ASTM G-21
Alkali Resistance	Resistant	ASTM D-1308

For a complete list of details in CAD or PDF, please visit our website at [www.avmindustries.com](http://www.avmindustries.com).

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**Quality Waterproofing Products**



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