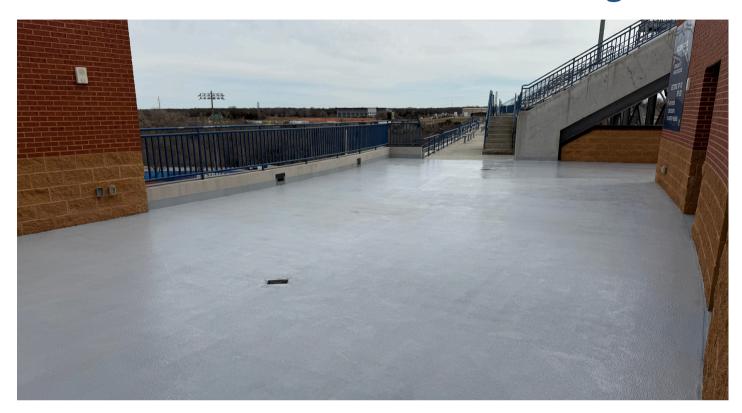


AVM SYSTEM 620P - Pedestrian Traffic Coating



SYSTEM DESCRIPTION

The AVM System 620P is a two component, fast setting, rapid curing, solvent free, high performance, and high solids polyurea / urethane MMA polymer waterproofing membrane. This membrane can be used as a heavy-duty wearing surface on prepared interior or exterior concrete, under asphalt overlays, plywood and metal surfaces.

WHERE TO USE

Typical uses include pedestrian walkways, balconies, patios, plaza decks, mechanical rooms and similar applications requiring a monolithic waterproofing system.

PRODUCTS & ACCESSORIES

AVM Topcoat 620-AL: Two-component, UV stable (aliphatic) hybrid polyurea waterproofing membrane topcoat. 620-AL can be used in multiple coats for the Aussie Coat 620V Vehicular traffic coating system or as a topcoat over Aussie Membrane 520 for the Aussie Coat 620P — Pedestrian coating system.

AVM System 520: Single component cold-applied polyurethane liquid, which dries to a tough, seamless flexible waterproof membrane that exhibits excellent adhesion, strength, elongation and recovery properties.

AVM Epoxy Primers: Two-component, solvent- based, epoxy primer for use over concrete, plywood, metal flashings and other polyurethane and acrylic deck coatings.



Aussie Seal M: Marine-grade moisture cure polyether sealant for use as a detailing membrane and at cant strips.

16/30 Silica Sand: Used as a broadcast sand/aggregate for traction and grip as required.

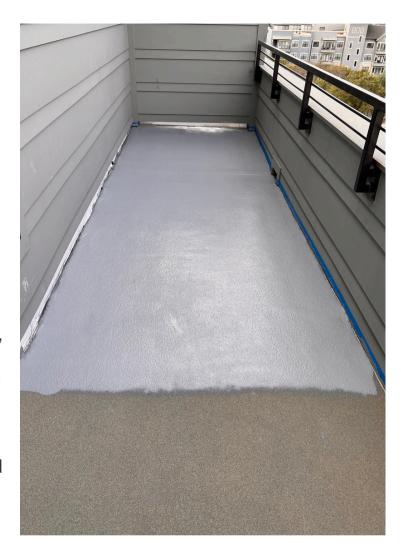
LIMITATIONS

Do not open until ready to use. Any off ratio mixing of the product will affect the properties and the product may not cure. This product contains Isocyanates and Curative Material.

DELIVERY, STORAGE & HANDLING

- Delivery of all the system materials to the job site must be in their original sealed containers and bags, with the manufacturer's name and label intact.
- Handle and store containers and bags in accordance with printed instructions.
- Store at temperatures between 50°F and 90°F.
- Keep all materials out of reach of children.
- If irritation occurs during use, liberally flush affected areas with water. If irritation continues, see a physician immediately.

The Shelf Life of **AVM System 620** is 1 Year of date of manufacture when stored in recommended conditions.





SECTION 1 — GENERAL INSTALLATION GUIDELINES

1.1 PRIMER

If an adhesion test is completed on the deck and the results determine primer is needed, review data sheets for instructions on specific primer application

1.2 PRIMING REQUIREMENTS

- 1. **Primer Application:** Where required, prime surfaces with AVM Primer. Allow primer to become dry to the touch but still a little tacky prior to applying the base coat.
- 2. **Recoat Window & Surface Prep:** If the primer is not sanded to refusal, it should be coated before it becomes tack free. If the surface has become hardened or it exceeds the recoat window, then the surface must be abraded using a 100-grit sanding pad and re-primed before proceeding.

1.3 MOISTURE

Moisture Testing

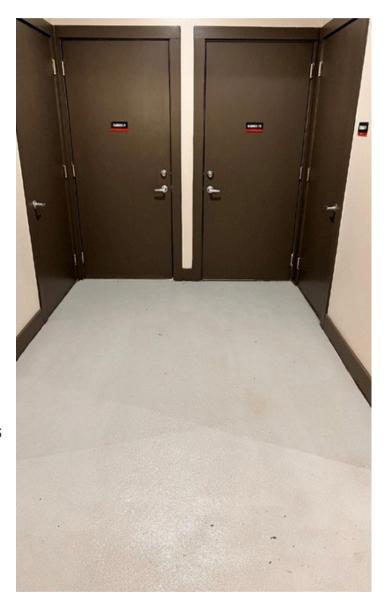
When installing a seamless coating, checking for moisture is critical to ensure proper adhesion and long-term system performance. Elevated moisture

levels can cause adhesion failure, blistering, and coating degradation.

- Moisture readings must not exceed 5 lbs/1,000 sq. ft. over 24 hours per ASTM F1869.
- Regardless of moisture reading a test patch is always recommended to:
 - Confirm proper adhesion.
 - Determine if a moisture mitigation primer (such as 401 or 420) is necessary.

1.4 MOCKUP

Establish a 100-200 sq/ft mockup area completed with the intended materials. The mockup should be approved by a project representative for functionality, slope, slip resistance, adhesion and aesthetics. Once the mockup is approved, it shall become the benchmark for the installation and finish on all the decks to be coated.



SECTION 2 – Typical Preparation

2.1 CONCRETE SUBSTRATE PREPARATION & REQUIREMENTS

- 1. **Curing & Strength:** Concrete must be a profile CSP3 per ICRI specifications with a minimum compressive strength of 3.000 psi.
- 2. **Surface Preparation:** All surface residues must be removed from the substrate. This may be achieved by shot-blasting, bead-blasting or mechanically grinding the surface.
- Concrete substrate shall be a profile of CSP-3 per ICRI specifications
- The surface must be clean and free of all contaminants, including mold, paint, sealers, existing coatings, or curing agents that may interfere with adhesion.
- AVM Epoxy Primer may be required depending on substrate conditions

3. Surface Defects:

- Spalled areas/voids must be repaired using AVM Crete 6400 or polymer modified exterior grout.
- All surface imperfections such as ridges, fins, or other defects must be ground down to prevent telegraphing through.
- 4. Drains must be clean, operational, and recessed below the deck surface. As per standard industry practice, all deck surfaces shall be sloped at a minimum of 1/4" per foot to drain to ensure proper water runoff.
- 5. Drain types vary by location, substrate and waterproofing membrane type. Contact AVM for appropriate drains to be used.

2.2 DETAILING REQUIREMENTS

- Horizontal-to- Vertical Transitions: Install a sealant cant at all horizontal-to-vertical junctions using Aussie Seal or an AVMapproved sealant. Follow with a 25-mil detail coat of Aussie Membrane 520.
- 2. **Crack Treatment (<1/16"):** All non-moving cracks less than 1/16" wide shall be sealed using Aussie Seal or an AVM-approved sealant prior to installation of the full waterproofing system.
- Shrinkage cracks greater than 1/16" in width must be ground out to a minimum of 1/4" wide by 1/2" depth filled with AVM approved sealant and reinforced with 6" AVM mat 800 polyester followed by a detail coat of 15 mils Aussie Membrane 520
- For cracks larger than ¼" wide, moving cracks or expansion joints contact your AVM Representative



- 3. Expansion/Movement Joints: All expansion or moving joints must be honored using appropriate backer rod and sealed with an AVM-approved sealant for specific recommendations contact your local AVM Representative.
- 4. **Cure Time:** Allow all detail coats of Aussie Membrane 520 to cure for a minimum of 12 hours before applying AVM 620 AL Topcoat.
- 5. **Metal Flashing Specification:** A minimum 26-gauge bonderized (preferred) L-metal flashing shall be installed at all deck-to-wall transitions when applying the AVM 620P System from a concrete deck to sheathing.
- Over concrete L Metal flashing shall be wet set in urethane sealant and fastened as needed to lie flat
- Over Plywood L metal flashing shall be wet set in urethane sealant and fastened every 4-6" staggered to lie flat

6. Surface Preparation for Non-Bonderized Metal:

- If bonderized metal is not used, all metal surfaces shall be properly abraded to fully remove oils, coatings, and any paint to ensure proper adhesion of the waterproofing system.
- A 6" wide strip of AVM mat 800 may be installed at flashing edge to help transition and prevent metal from telegraphing through coating.





INDUSTRIES INC

SECTION 2 – Typical Preparation

2.3 SLOPE PREPARATION

- 1. Concrete Substrates: If an additional slope is required over concrete substrate, use AVM Crete 6400 as needed to create the necessary pitch for proper drainage.
- 2. Plywood Substrates: When sloping is required over plywood, install a 1/4" thick layer of AVM Crete 6400 reinforced over 2.5 lb galvanized metal lath prior to the application of the AVM 620P system.

2.4 PARGE COAT

Where the concrete substrate is uneven or contains surface imperfections such as divots, a parge coat of Crete 6200 shall be applied to achieve a smooth and level surface suitable for subsequent installation

2.5 TEST PATCH APPLICATION

Before the application of any seamless coating system, a test patch area must be completed under site conditions.

The test patch should be used to:

- · Evaluate adhesion to the prepared substrate
- · Verify compatibility of system components
- Assess appearance (color, gloss, and texture)
- Confirm cure time and workability
- Identify potential substrate or environmental issues



INDUSTRIES INC

SECTION 3 – Typical Installation

3.1 APPLICATION

Mixing - *No mixing required with Aussie System 520*

- 1. Using a mechanical mixer, premix Part-A & Part-B of 620AL separately for 1-2 minutes to obtain a uniform color, making sure to scrape the solids from the bottom and sides of both containers.
- 2. Pour Part-B into Part-A slowly and while mixing, scrape the sides of the bucket.
- 3. Mix the combined Part-A and Part-B for 2-3 minutes from bottom to top until a uniform color is obtained.

Base Coat

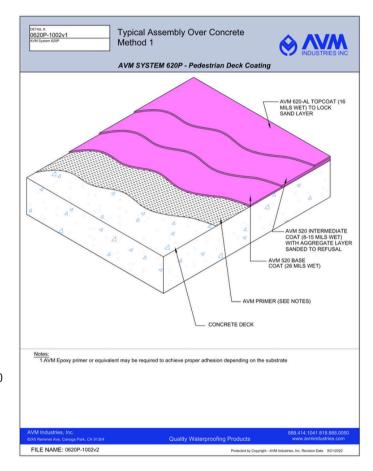
Apply AVM Aussie Membrane 520 Pro (base coat) in one or two coats, or as needed to achieve a minimum 24 mils dry film thickness. (Approximately 26 wet mils) If applying base coat in two coats, first coat must be fully cured and tack free before applying the second coat. Once the base coat is completed, allow a minimum of 12 hours (maximum 48 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.)

3.2 Three Methods for Installation

Method 1 - Sand Broadcast to Refusal with 520 Pro

- 1. Base Coat Application
- Apply AVM Aussie Membrane 520 at 26 wet mils.
- Allow a minimum of 12 hours, or until fully cured, before proceeding to the next step.
- 2. Aggregate Layer/Intermediate Layer
- Once the base coat has cured, apply an additional 10 mil coat of AVM 520 Pro to act as the aggregate layer.
- 3. Sand Broadcast
- Immediately broadcast 16/30 mesh sand into the wet surface at a rate of approximately 15–20 lbs per 100 sq. ft., or to refusal.
- Ensure complete coverage—no wet spots should remain.
- Clean Up Loose Aggregate.
- Once dry, sweep or vacuum to remove all loose or unbonded aggregate.
- Cure Time Before Topcoat. Allow the 520 to cure for a minimum of 12 hours before applying the topcoat.
- 4. Topcoat Application
- Apply AVM Top Coat 620-AL using a roller, trowel, or notched squeegee.

- Apply uniformly at a minimum rate of 100 sq. ft. per gallon (16 wet mils).
- Take care to avoid puddling and ensure even coverage throughout.

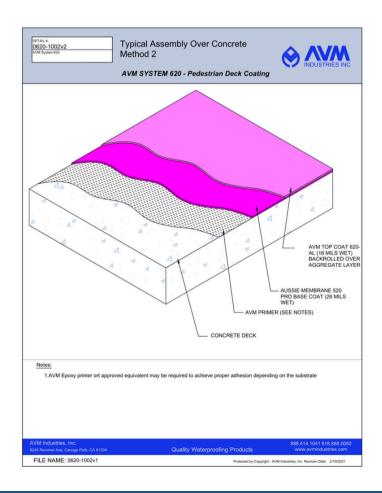




SECTION 3 – Typical Installation

Method 2 - Back roll application

- 1. Base Coat Application.
- Apply AVM Aussie Membrane 520 at 26 wet mils. Allow a minimum of 12 hours, or until fully cured, before proceeding.
- 2. Coating Application
- Once the 520 base coat is fully cured, apply AVM Topcoat 620-AL as the Binder Coat using a roller, trowel, or notched squeegee. Apply uniformly at a minimum rate of 100sf per gallon (16 wet mils). Take care to apply evenly, avoiding any puddling.
- 3. Aggregate Broadcast
- While the 620-AL is still wet, broadcast 16/30 mesh aggregate into the surface, ensuring proper embedment and full surface coverage. Do not allow the coating to begin setting prior to broadcasting. Curing may initiate in as little as 15 minutes, depending on temperature and environmental conditions.
- 4. Back-Rolling and Encapsulation
- Back-roll the aggregate into the wet coating to fully encapsulate it. Use approximately 10 lbs of aggregate per 100 sq. ft.



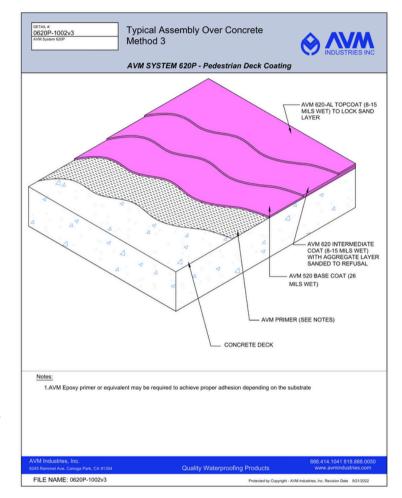




SECTION 3 – Typical Installation

Method 3 — Sand Broadcast to refusal System with 620 - ΔI

- 1. Base Coat Application
- Apply AVM Aussie Membrane 520 at 26 wet mils.
- Allow a minimum of 12 hours, or until fully cured, before proceeding.
- 2. Aggregate Layer/Intermediate Layer
- Apply AVM Top Coat 620-AL as the Aggregate Binder Coat using a roller, trowel, or notched squeegee.
- Apply uniformly at a minimum rate of 150-200 sq. ft. per gallon (8 -12 wet mils).
- 3. Sand Broadcast
- While the 620-AL is still wet, broadcast 16/30 mesh sand to refusal (approximately 15–20 lbs per 100 sq. ft.) across the entire surface. Ensure full coverage, leaving no wet spots.
- Do not allow the coating to begin setting prior to broadcasting. Curing may initiate in as little as 15 minutes, depending on temperature and environmental conditions. Allow the broadcast layer to be cured for a minimum of 30 minutes, depending on weather conditions.
- Clean Up Loose Aggregate. Once the coating has cured, sweep and/or vacuum all loose or unbound aggregate.
- 4. Final Topcoat Application
- Apply AVM Top Coat 620-AL using a roller, trowel, or notched squeegee. Apply in a uniform coat at a minimum rate of 150-200 sq. ft. per gallon (8-12 wet mils).
- Ensure even coverage, avoiding puddling.





Aussie Coat 620P Technical Information

Property	Results	Test Method
Specific Gravity	Side A: 1.05 ± 0.1 Side B: 0.99 ± 0.1	
Hardness	80 ± 3	ASTM D-2240 Shore A
Pot Life (min @ 75°F [24°C], 50% RH	15 ± 5 minutes	
Tack Free Time	3-4 Hours	
Tensile Strength	2500 ± 100 pli (17.2 ± 0.7 kN/m)	ASTM D-412
Elongation	800 ± 100%	ASTM D-412
Tear	300 ± 25 pli (52.5 ± 4.4 kN/m)	ASTM D-624
Viscosity, at 75°F (24°C)	Side A: 1500-2500 cps Side B: 50-150 cps	
Total Solids by Volume	97%	ASTM D-2697
Volatile Organic Compounds	<0.49 lbs/gallon (59 gm/liter)	ASTM D-2369-81

Packaging

Item	Packaging	Approx Shipping Weights	No. of Kits per Pallet	Pallet Weights	voc
520 5-Gal Bucket	5 Gallons	60 Lbs	36 Buckets/Pallet	4050 Lbs	75 g/l
620-AL 1 Gal Kit Part-A	0.8 Gallon	9 Lbs	180 Part-A on Pallet 1	1,680 Lbs	0.00 lb/gal
620-AL 1-Gal Kit Part-B	0.2 Gallon	21 Lbs	180 Part-B on Pallet 2	465 Lbs	0.00 lb/gal
620-AL 5-Gal Kit Part-A	4 Gallons	45 Lbs	48 Part-A on Pallet 1	2,220 Lbs	0.00 lb/gal
620-AL 5-Gal Kit Part-B	1 Gallon	11 Lbs	48 Part-B on Pallet 2 (12 Boxes)	598 Lbs	0.00 lb/gal

Coverages

Item	Coverage Rate
AVM 520 - Applied as a Base Coat Layer at 24 Dry Mil Thickness	67 sqft/gal
AVM 620-AL Aliphatic @ 30 Mils AVM 620-AL Aliphatic @ 20	55 sqft/gal
Mils AVM 620-AL Aliphatic @ 15 Mils	80 sqft/gal
	105 sqft/gal

Note: These are theoretical coverage rates and may vary depending on substrate types or if used as a topcoat over sand.





AVM Epoxy Primer 401 Technical Information

Coverages: The following coverages are based on controlled tests. Actual coverages may vary.

Material	Over Concrete or Metal Surfaces	Over wood, sealed or textured surfaces	Over Porous Surfaces (CMU)
AVM Epoxy Primer 401	300 sq. ft./gal.	250 sq. ft./gal	150 sq.ft./gal

Packaging:

Item / Component 2 Gal Kit	Packaging	Approx Shipping Weights	voc
(Epoxy Primer 401) AVM			
Primer 401 Part A AVM	1 gal.	11.0 lbs.	90 Grams/Liter
Primer 401 Part B	1 gal.	16 lbs.	90 Grams/Liter

Technical Properties:

Physical property	Results 60-90 minutes	Test Method
Pot Life 75° @50% RH	dry film 4±1 mil A-Side:	
Dry Film Thickness Per Coat	1.27±0.1 B-Side: 1.85±0.1	
Specific Gravity	90%±2% 84%±2% 0.75	
	lbs/gal (90 g/L)	
Total Solids by Weight		ASTM D-2369
Total Solids by Volume		ASTM D-2697
Volatile Organic Compounds		ASTM D-2369-81





AVM System 520 Technical Information

Technical Information	Test Method	Test Results
Color		Gray
Solid Content		≥ 95%
VOC Content		75 g/L
Low Temperature Flexibility		No Cracking at -40° (-40°C)
Tensile Strength		2.79 MPa (405 psi)
Elongation at break		726%
Tearing Strength		15 N/mm
Water Impermeability (at .03 MPa, 30 mins)		Impermeable
Resistance to Water	ASTM D 2939	PASS
Low Temperature Crack Bridging	ASTM C836	PASS
Extensibility After Heat Aging	ASTM C836	PASS
Adhesion Strength	ASTM C836	17 lbf/in
Remains in Place During Application	ASTM C 836	PASS (2 coats vertical @ 30 mils wet)
Resistance to Decay (Requirement: ≤ 10%)	ASTM E154-99	5% change
Water Vapor Transmission (Requirement: \leq 1)	ASTM E96-13	.67 perms
Hydrostatic pressure over 1/8" crack	ASTM 1306-95	17.5 psi
Service Temperature		-25°F to 177° F (-31°C to 80°C)
Application Temperature		40° to 100° F (4°C to 38°C)
Tack Free Time (hours)1		≤ 10 hrs.
Curing Time (hours)2		≤ 20 hrs.

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

AVM's Aussie Membrane 520 material was evaluated for compliance with ICC-ES AC29:

Acceptance Criteria for Cold, Liquid-Applied, Below-Grade, Exterior Dampproofi ng and Waterproofi ng Materials.

Coverages (Varies depending on substrate)	Thickness
125 sq/ft per 5gal pail	60 mils

Item/Component	Packaging	Approx. Shipping Weights	Qty / Pallet	Weight / Pallet	Pallets/ Truck	VOC
Aussie Membrane 520	5-Gal Pail	60 lbs.	36	2260 lbs	20	75 g/L

of pallets per truck varies if shipped to or in USA or to or in Canada and/or if shipped in a shipping container or standard truck. Qty/Truck listed above shows maximum pallets per 40 GP shipping container shipped in or to the USA. Call AVM for details.





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

Aliphatic Top Coat Colors







Note: Colors shown are as accurate as possible. Applied color appearance may vary due to surface texture, lighting, size, shape, method of application and adjacent colors. AVM Industries, Inc. reserves the right of reasonable variation. Colors might vary from batch to batch. Custom colors and color matching are available subject to extra charge and minimum order quantities.