AVM INDUSTRIES INC

Aussie Coat™ 620V - Vehicular Traffic Coating

SYSTEM DESCRIPTION

The **Aussie Coat 620V** 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 vehicular concrete parking decks, pedestrian walkways, patios, stairways, sunrooms, metal roofs, and under asphalt overlays.

PRODUCTS & ACCESSORIES

AVM Top Coat 620-AL: Two-component, UV stable (aliphatic) hybrid polyurea waterproofing membrane topcoat. 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 Epoxy Primer 401 or 420: 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.

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. 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.

Shelf Life of AVM 620-AL is 1 Year of date of manufacture when stored in recommended conditions.

SECTION 1 – GENERAL INSTALLATION GUIDELINES

1.1 SUBSTRATE

Remove all cementitious coatings, paint, paint stripes, and stains or anything else that may interfere with adhesion by power washing (800-1,000 psi) or shot-blasting the deck. The prepared substate should be clean and dust free and have an ICRI #3 Surface Prep profile which resembles “medium sandpaper”.

The substrate must also be free of pinholes, cracks or other imperfections that could compromise the system. Seal all joints and cracks flush will Aussie Seal M (or approved polyether sealant) and backer rod if required.

1.2 PRIMER

If an adhesion test is completed on the deck and the results determine its needed, the following steps should be used in the application of AVM Epoxy Primer 401 or 420.

If pinholes are present in the concrete, apply AVM Epoxy Primer 401 or 420 to fill in the pinholes to avoid outgassing. Apply the next layer while the epoxy primer is still tacky (no puddles) or a maximum 24 hours after the epoxy primer was applied. Please refer to the AVM Epoxy Primer 401 or 420 Technical Data Sheet for additional information.

1. Mix part A separately for 60 seconds using a drill and clean paddle.
2. Mix part B separately for 60 seconds using a drill and clean paddle.
3. Combine Part A and Part B into a single container and thoroughly mix for 2 additional minutes using a drill and clean paddle. (Product is supplied in kits, so no pre-measuring is required. Make sure to use the entire contents of both Part A and Part B).
4. AVM Epoxy Primer 401 or 420 is now ready to be applied. Do not mix more material than can be used within 20 minutes.

1.3 MOCKUP (IF REQUIRED)

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 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 VEHICULAR ASSEMBLY OVER CONCRETE

2.1 MIXING

1. Using a mechanical mixer, premix Part-A & Part-B of 620-AL 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 uniformed color is obtained.

2.2 APPLICATION

1. Base Coat: Pour the mixed 620-AL material out in a stream along the short side of the deck and spread material out with a notched squeegee and apply at a rate of **80 sq/ft per gallon** and a minimum **20 dry mils thick**.
2. Aggregate Broadcast: Once the base coat is firm enough to not allow sand to sink, broadcast 16-30 silica sand into the base coat. (approximately 10 – 15 minutes after initial placement)
3. Allow the base coat to sit approximately 30 mins (depending on weather) prior to the installation of the second coat.

1. Topcoat: Install a second coat of 620-AL over the previous layer and sand at a rate of **80 sq/ft per gallon** and a minimum **20 dry mils thick**. It should be noted that due to the sand layer absorbing more material the second coat may go down at a 60 sq/ft per gallon rate and should be verified with a wet mil gauge.
2. Grid the area making sure you are applying the adequate amount of the material in the designated area.
3. The pot-life of 620-AL is approximately 20 minutes.

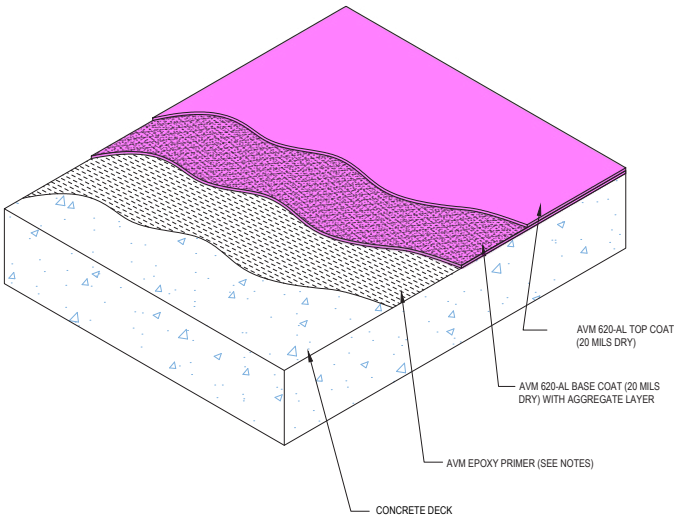
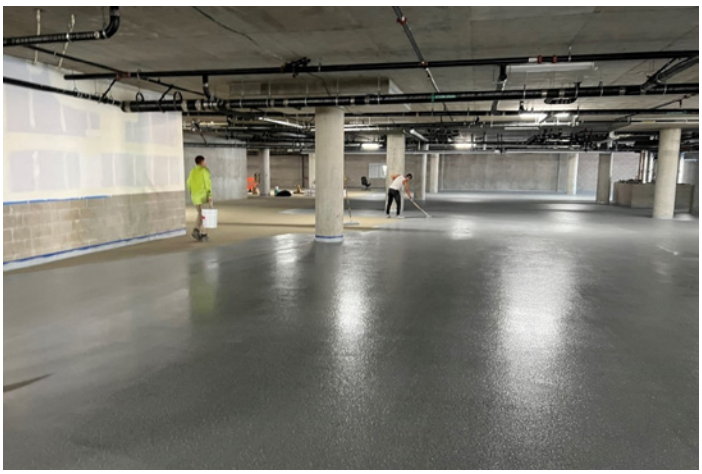


FIGURE 2.2 – TYPICAL ASSEMBLY OVER CONCRETE



SECTION 3 – MAXIMUM SLIP RESISTANCE APPLICATION FOR HEAVY TRAFFIC AREAS

3.1 MIXING

1. Using a mechanical mixer, premix Part-A & Part-B 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 uniformed color is obtained.

3.2 APPLICATION: 3-COAT INSTALLATION METHOD

1. **Base Coat:** Pour the mixed 620-AL material out in a stream along the short side of the deck and spread material out with a notched squeegee and apply at a rate of **80 sq/ft per gallon** and a minimum **20 dry mils thick**.

1. **Intermediate/2nd Coat:** Once the base coat is completely walkable (3-4 hours) apply 620-AL at a rate of **100 sq/ft per gallon** and a minimum **15 dry mils thick** with a squeegee.
2. **Aggregate Broadcast:** Once the base coat is firm enough to not allow sand to sink, broadcast 16-30 silica sand to refusal into the base coat.
3. After 3-4 hours blow or sweep off excess aggregate.

1. **Topcoat/3rd Coat:** Apply 620-AL at a rate of **100 sq/ft per gallon** and a minimum **15 dry mils thick** with a squeegee. It should be noted that due to the sand layer absorbing more material the second thickness should be verified with a wet mil gauge.

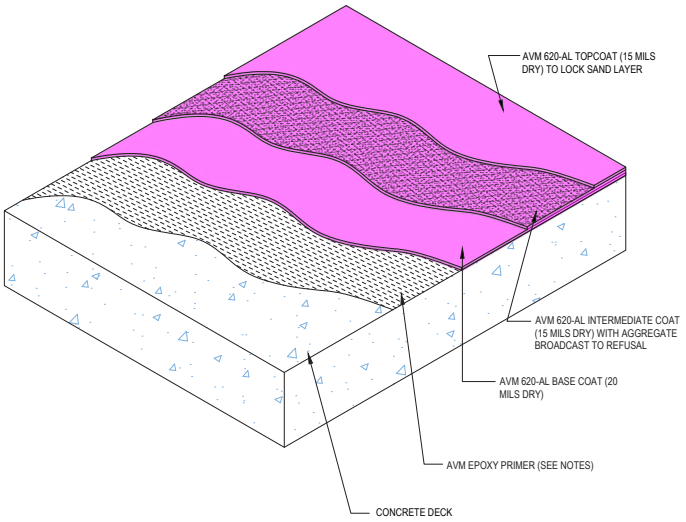


FIGURE 3.2 – 3-COAT ASSEMBLY FOR MAXIMUM SLIP RESISTANCE

Aussie Coat™ 620V Technical Information

Property	Results	Test Method
Hardness	80 ± 3	ASTM D-2240 Shore A
Pot Life (min @ 75°F, 50% RH)	10 ± 2 minutes	
Tack Free Time	3-4 Hours	
Tensile Strength	2500 ± 100 psi	ASTM D-412
Elongation	800 ± 100%	ASTM D-412
Tear	300 ± 25 psi	ASTM D-624
Viscosity at 75°F	Side A: 1500-2500 cps Side B: 50-150 cps	
Total Solids by Weight	94 ± 2%	ASTM D-2369
Total Solids by Volume	95 ± 2%	ASTM D-2697
Volatile Organic Compounds	<0.49 lbs/gal	ASTM D-2369-81

Packaging

Item	Packaging	Approx Shipping Weights	No. of Kits per Pallet	Pallet Weights	VOC
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 620-AL Aliphatic – Applied as a Base Coat Layer at 20 Dry Mils Thick	80 sqft/gal
AVM 620 AL Aliphatic – Applied as a Top Coat Layer at 20 Dry Mils Thick	80 sqft/gal
AVM 620 AL Aliphatic – Extra Coating on Ramps/Turn Radii/Heavy Traffic Areas if needed at 15 Dry Mils Thick	100 sqft/gal

Installation Instructions

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	Packaging	Approx Shipping Weights	VOC
1 Gal Kit (Epoxy Primer 401)			
AVM Primer 401 Part A	1 gal.	11.0 lbs.	90 Grams/Liter
AVM Primer 401 Part B	1 gal.	16 lbs.	90 Grams/Liter
5 Gal Kit (Epoxy Primer 401)			
AVM Primer 401 Part A	5 gal.	55 lbs.	90 Grams/Liter
AVM Primer 401 Part B	5 gal.	85 lbs.	90 Grams/Liter

Packaging:

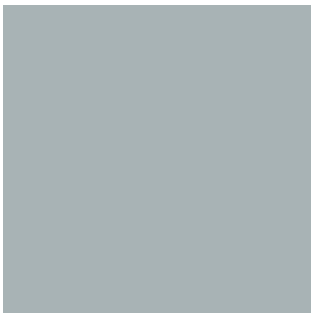
Item / Component	Packaging	Approx Shipping Weights	VOC
AVM Epoxy Primer 420 Kit	2.4 Gal Kit	26 Pounds	0 g/L

Approximate Coverage Rates		Standard 2.4 Gallon Kit
First thin coat to control pin-holing	200 sq ft/gallon	480 sq ft per unit
10 mils	160 sq ft/gallon	384 sq ft per kit
12 mils	133 sq ft/gallon	320 sq ft per kit
15 mils	120 sq ft/gallon	288 sq ft per kit
20 mils	80 sq ft/gallon	192 sq ft per kit
30 mils	55 sq ft/gallon	132 sq ft per kit
40 mils	40 sq ft/gallon	96 sq ft per kit

Aliphatic Top Coat Colors

Standard Color (Stocked Item) : Medium Gray
All other colors are special order


Dark Gray


Medium Grey


Light Gray


Chocolate


Ash Brown


Brick Red


Dark Tan

Tan

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.