TECH DATA SHEET

Sections - 071000 / 071400 / 071416

Aussie Coat® 620P Pedestrian Traffic Coating

Hybrid, Aliphatic, Polyurea Deck Coating System

Generic Spec
Section 071800 / 071816 / 096700 / 096713

Product Name
Aussie Coat® 620P

AVM System No.
Aussie Coat® 620P

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

Product Description
The AVM System 620-AL is two component, 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
Typical uses include pedestrian walkways, balconies, patios, plaza decks, mechanical rooms and similar applications requiring a monolithic waterproofing system.
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Features and benefit

- Incorporates Polyurethane base coat with Polyurea topcoat for enhanced durability
- Easy to install
- Monolithic waterproof coating
- Fast setting, rapid cure time
- Abrasion resistant
- UV resistant Topcoat
- Seamless and fully adhered membrane.
- High flexibility
- LowVoc/Environmentally friendly
- Durable in harsh conditions.

Packaging
AVM 520 Pro Aussie Membrane – 5 Gal
AVM 620AL 4.4 Gal kit -5gal

Colors
AVM 620AL is available in Dark Gray, Medium Gray, Light Gray, Chocolate, Ash Brown, Brick Red, Dark Tan, and Tan. Custom colors are available upon request

Installation
Concrete shall be water-cured and shall achieve a minimum compressive strength of 3,000 psi. The substrate finish shall be an equivalent surface texture conforming to ICRI specification CSP-3 Depending on the specific construction and job site conditions, additional testing may be required. See application instructions for full system application requirements

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.

Equipment Cleanup
Higher temperatures accelerate cure time. Equipment should be cleaned with an environmentally safe solvent, as permitted under local regulations, immediately after use.

Shelf Life
1 Year of date of manufacture when stored in recommended conditions.

Preperation/Installation
See full application instructions and requirements at
https://www.avmindustries.com/system-620-p/

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.
- Do not apply when temperatures cannot be maintained above 40ºF for a minimum of 48 hours or until cured.
- Do not install if precipitation is imminent.
- Do not apply materials in direct sunlight or when ambient temperatures exceed 90°F.
- For best results, apply during descending temperatures to minimize the risk of outgassing or blistering.

Maintenance
Contact AVM for Details

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

Warranty
Contact AVM Industries for warranty details

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

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 620-	5 Gallons	60 Lbs	36 Buckets/Pallet	4050 Lbs	75 g/l
AL 1 Gal Kit Part-A 620-	0.8 Gallon	9 Lbs	180 Part-A on Pallet 1	1,680 Lbs	0.00 lb/gal
AL 1-Gal Kit Part-B 620-	0.2 Gallon	21 Lbs	180 Part-B on Pallet 2	465 Lbs	0.00 lb/gal
AL 5-Gal Kit Part-A	4 Gallons 1	45 Lbs	48 Part-A on Pallet 1	2,220 Lbs	0.00 lb/gal
620-AL 5-Gal Kit Part-B	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	55 sqft/gal
AVM 620-AL Aliphatic @ 20 Mils	80 sqft/gal
AVM 620-AL Aliphatic @ 15 Mils	105 sqft/gal

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

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

www.avmindustries.com **Quality Waterproofing Products**

L.A. RR#: 26206

Miami-Dade County Product Control Approved. NOA: 22-0722.05

TECH DATA SHEET
Sections - 071000 / 071400 / 071416

AVM INDUSTRIES INC

AVM System 520
Aussie Membrane 520 PRO
Heavy Duty Below Grade Polyurethane Waterproofing Membrane

Tech Data Sheet
Section 071000 / 071400 / 071416
Fluid Applied Waterproofing

Product Name
AVM System 520, Aussie Membrane

AVM System No.
AVM System 520

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

Product Description
The AVM **Aussie Membrane 520 PRO** is a vapor-proof, Gray liquid polyurethane , which dries to a tough, seamless flexible waterproof membrane. The **Aussie Membrane 520 PRO** is a single component cold-applied polyurethane liquid. It exhibits excellent adhesion, strength, elongation and recovery properties.

Where to Use
Below-Grade: Foundation Walls (Concrete & CMU), Retaining Walls, Basements, Non-potable Water Detention Vaults

Decks & Planters: Plaza Decks, Split-Slab Decks, Green Roofs, Planter Boxes

Warranty
AVM Industries will warranty the installed membrane for a period of five (5) years. Ten (10) year warranties are also available. For complete warranty details, contact AVM Industries or consult with your applicator.

Delivery, Storage, and Handling
a. Delivery of all the **AVM System 520** materials to the job site must be in their original sealed containers, with manufacturer's name and label intact.

b. Handle and store containers 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.

d. Failure to comply with the recommended storage conditions may result in premature deterioration of the product. For specific storage advice, please contact AVM Industries and/or its representatives.

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

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

Project Conditions
1. All surfaces to which the **Aussie Membrane 520 PRO** is applied to must be sound and stable, with an even finish and free from dust, loose debris, grease, curing agents, etc.
2. Do not apply materials at temperatures below 40°F and falling or if precipitation is imminent. Do not apply materials in direct sunlight at temperatures above 100°F or rising.
3. Warn personnel against hazards of materials to skin and eyes. Note other hazardous conditions on the job that might require special protective gear and or any other special protective or safety procedures.
4. Protect adjacent surfaces which could be damaged during the application procedure.
5. This system must not be used to cover Expansion Joints.

System Application
Read the **AVM System 520** Installation Instructions Prior to Installation.

Green/Wet **Concrete:** Concrete substrates do not need to be fully cured. Depending on weather conditions and other factors, the **Aussie Membrane 520 PRO** may be applied to concrete that's been cured a minimum of seven (7) days. Depending on the amount of moisture, epoxy primer 400 may be needed. Do not apply the Aussie Membrane to waterlogged surfaces. Verify adhesion via a properly conducted pull test. Contact AVM for details.

Spraying: **Aussie Membrane 520 PRO** can be sprayed with a Graco 833 or equivalent pump capable of producing 4,000 PSI with a .023 inch or larger tip. Thinning may be required based on ambient air temperature. Please contact AVM for thinning and tip size recommendations.

Non-Vented **Decks:** For installation requirements over Non-Vented Decks, refer to the **Aussie Membrane 520 PRO** Installation Instructions.

PSI: On traffic bearing surfaces, concrete substrates shall achieve a min compression strength of 2000 psi prior to installation.

Quality Control
a. Visually inspect all coated surfaces to ensure a full and proper coating application, especially at corners, drainage footings and other hard-to-reach areas.

b. All unsatisfactory areas shall be repaired prior to final acceptance.

Protection of Installed Work
a. The completed section shall be protected for the first 24 hours after application or until the surface is sufficiently cured. (The amount of drying time may vary depending on temperature and humidity conditions)

b. Always protect the waterproofing from possible damage. Use Drainage Boards or AVM Approved Protective Panels. Refer to the "Installation Instructions" or to the "**Aussie Membrane 520 PRO** Min Thickness Table" for protection 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.

System Specifications

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)
Adhesion to Concrete		.86MPa (125psi)
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	20.1 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: ≤ 1)	ASTM E96-13	.67 perms
Hydrostatic pressure over ⅛" crack	ASTM 1306-95	17.5 psi
Hardness (min 50)	ASTM C836	80
Hydrostatic Pressure Resistance	ASTM 751	113
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.
2. Based on controlled tests. Cure 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 Dampproofing and Waterproofing 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.

MIAMI-DADE COUNTY APPROVED

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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AVM INDUSTRIES INC

AVM Top Coat 620-AL

Hybrid, Aliphatic, Polyurea Waterproofing Membrane Topcoat

Generic Spec

Section 071800 / 071816 / 096700 / 096713

Product Name

AVM Top Coat 620-AL

By

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

Product Description

AVM Top Coat 620-AL is a heavy duty, two-component, fast setting, rapid curing, solvent free, high solids, hybrid aliphatic polyurea elastomeric membrane that provides long lasting protection to the coated surfaces. Top Coat 620 may be applied in single or multiple coats and can be installed in temperatures as low as 20°F (-7°C).

Where to Use

AVM Top Coat 620-AL is intended for use as the Top Coat for Polyurethane Pedestrian and Vehicular Deck Coating Systems. It can also be applied to properly prepared interior or exterior concrete, plywood, 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

Surface Preparation: Surface must be clean and dry. When installing over Aussie Membrane 520 (base coat), the base coat must be fully cured and tack free.

Mixing: Premix Part A and Part B components using a low-speed mechanical mixer until a homogeneous mixture and color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture.

Application: Apply at the recommended coverage rate using a roller, notched squeegee, or trowel. When applying an aggregate coat, (sand layer) Apply the aggregate evenly at the appropriate rate into the wet coating and if desired, back-roll. (see AVM System 620 installation instructions). **Top Coat 620-AL** requires a continuous coating application to minimize lines and/or streaking. For proper adhesion between coats, re-coating must be done within 8-12 hours.

Curing: 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.

Cleanup: All cleanup should be done in accordance with local regulations.

Limitations: The following conditions must not be coated with **AVM Top Coat 620-AL**: Split slabs, buried membrane, sandwich slabs with insulation, slabs over unvented metal pan, magnesite, and non-structural lightweight concrete.

Surfaces must be dry, clean, and free of foreign matter. Containers that have been opened must be used as soon as possible. Do not dilute with solvent.

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.

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

Top Coat 620-AL Aliphatic Top Coat (AVM Part # U-620-ALTC) Two-component, fast setting, rapid curing, solvent free, high solids, hybrid aliphatic polyurea elastomeric membrane that meets or exceeds the following properties:

	Top Coat 620-AL Part A	Top Coat 620-AL Part B	
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	

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

AVM INDUSTRIES INC

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AVM INDUSTRIES INC

AVM Epoxy Primer 401-FC

Two-Component, Fast Cure, Epoxy-Polyamine Primer

Sections 071800 / 071813 / 071816
Fluid-Applied Waterproofing

Product Name

AVM Epoxy Primer 401-FC (Fast Cure)

Manufactured by

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

Product Description

AVM Epoxy Primer 401-FC is a two component, liquid applied, solvent-based, fast-cure epoxy-polyamine primer with unique penetrating characteristics. This primer can be used over Concrete, Plywood, Metal Flashings and other Polyurethane and Acrylic Coatings.

Advantages

- Excellent Adhesion
- Low Viscosity
- Bonds to many different substrates and surfaces
- 100% Solids, Low VOC, Low Odor
- Interior or Exterior
- Fast Cured Primer

Where to Use

Epoxy primer 401-FC is a multi-purpose solvent-based Epoxy-Polyamine Primer. **AVM Epoxy Primer 401-FC** will bond to most substrates including concrete, wood, metal, glass-reinforced plastics, polyurethane elastomeric surfaces, and many other substrates. Using **AVM Epoxy Primer 401-FC** will allow you to apply many coatings to many different substrates when bonding is a challenge or when the ultimate adhesion is required.

Warranty

If sold as part of an AVM system, refer to that system's warranty for details. If sold as a stand-alone primer, AVM's standard 1 year material warranty applies. For complete warranty information, go to **www.avmindustries.com**.

Delivery, Storage, and Handling

a. Delivery of the AVM Epoxy Primer 401 components must be in their original sealed containers, with manufacturer's name and label intact.
b. Handle and store containers in accordance with printed instructions.
c. Store at temperatures between 50°F and 95°F. Do not store materials in direct sunlight or where they may be damaged by water or rain.
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.
f. Shelf life is one year from manufacturing date in sealed, unopened containers.

Project Conditions

a. Do not apply materials at temperatures below 40°F, or if precipitation is imminent, or above 100°F if applying in direct sunlight.
b. Provide adequate ventilation during installation.
c. Warn personnel against hazards of materials to skin and eyes.
d. Protect adjacent surfaces which could be damaged during the application.
e. Concrete substrate must cure for a minimum of 7 days, be dry to the touch, and have a moisture content of no more than 15% prior to installation.
f. Always protect materials from excessive heat and cold, and pre-condition to room temperature, as necessary.

Surface Preparation

The substrate surfaces must be structurally sound, clean, dry, and free of efflorescence, dust, dirt, silicone, oil and other contaminants that would prevent the proper penetration and/or bonding of the AVM Primer 401-FC to the substrate. Joints or cracks should be sealed or filled prior to the application of the AVM Primer 401-FC. AVM Primer 401-FC may be applied directly over other coatings as long as they are in good condition and properly attached to their substrates. For improved bonding and long-lasting adhesion, it is recommended to remove all existing coatings, paints, etc, prior to the application. Depending on existing conditions, additional preparation such as sandblasting or water-blasting might be required, especially when bonding to older cementitious surfaces (Concrete, blocks, slabs, bricks, etc). If you intend to apply the AVM Primer 401-FC over an existing coating or sealer, make sure it's clean (Pressure washing is highly recommended) and then do a test in a small area to ensure proper bonding. Metal flashings and other sheet metal-based surfaces need to be thoroughly cleaned and have all oils, grease etc. removed. Lightly sanding these surfaces is highly recommended since it will significantly increase bonding. ICRI CSP 3 is necessary.

Application Equipment

rpm) with a Jiffy® type impeller mixing paddle, a disposable 3-inch brush for precise application, a 3/8-inch nap non-shedding roller with a phenolic core, and a rubber squeegee. Pouring, squeegeeing, and back-rolling are recommended techniques because Dip-n-Roll can be challenging for less experienced installers, potentially resulting in unsightly lap lines.

Mixing

Maintain the temperature of both (A) and (B) components between 70°F and 80°F (20°C-25°C). Mix each component separately with a drill and paddle for a minimum one minute each and for a minimum 2 minutes when Part-A and Part-B are mixed together. For a 3-gallon kit, pour (Side-B) into (Side-A) in a 3.5-gallon bucket. Thoroughly mix the contents until all components are fully integrated, and no streaking is evident. Avoid thinning the mixture. Precise measurement of each component is crucial for optimal product performance. Consider the beneficial technique of pouring from one container to the other (boxing) during mixing to ensure thorough blending. Mix for a duration of 2 minutes.

Application

Once you have thoroughly mixed all the components according to the instructions, promptly pour the mixture onto the surface. Evenly spread the material using a roller or squeegee. It is crucial to perform back-rolling and then cross-rolling to ensure proper penetration of the epoxy primer into the substrate and a uniform film thickness. Allow to dry until dry to the touch before applying any coating over the epoxy primer. Drying time is approximately 2-4 hours but may vary based on temperature, humidity, and other factors. Once dry to the touch, the "Open Time" to apply coatings over the primer is approximately within 12 hours. (Open Times may vary based on temperature, humidity and other factors). Light foot traffic may be permitted in 8-12 hours, Vehicle traffic after 3 days.

Coverage Rates

300 sf per gal @ 5 wet mil thickness
100 sf per gal @ 16 wet mil thickness
80 sf per gal @ 20 wet mil thickness

Quality Control

a. Visually inspect all coated surfaces to ensure a full and proper coating application, especially at corners, pinholes, drainage scuppers and other hard-to-reach areas.
b. All unsatisfactory areas shall be re-coated before proceeding with other coatings.

Protection of Installed Work

For best results the primed sections shall be protected from all pedestrian traffic until the primed sections are coated with the next waterproofing layer. (The amount of drying time may vary depending on temperature and humidity conditions).

Applying Coatings Over the Primer

Allow primer to become thumbprint-tack free before applying the coating. (Primer will still be a little tacky) If fully cured, reprime.

Cleanup

Tools and equipment should be cleaned with an environmentally friendly solvent, as permitted by local regulations immediately after use.

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.

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

Property	Results	Test Method
Volatile Organic Compounds (VOC)	<5 g/l	
Density	8 lbs/ga.	
Softening Point	266°F (130°C)	
Abrasion Resistance	40 mg loss	ASTM D4060
Bond Strength	>2.06 MPA (300 psi)	ASTM D4541
Coefficient of Thermal Expansion	.89x10-5 in/in/°F	ASTM D696
Tensile Strength	7500 psi	D2370
Water Absorption	<.1%	ASTM C413
Impact Resistance	160 in/lb	
Hardness	70-80	Shore D
Flow	325mm	
Coefficient of Friction	.7 smooth	ASTM D2047
Thermal Compatibility	Pass	ASTM S884
Compression	8,000 psi	ASTM S695
Flexural Strength	16.2 MPa (2350 psi)	ASTM C580
Pot Life	15-20 minutes	
Mix Ratio	Mix full units only	
Application Temperature	45°F (7°C) min. / 86°F (30°C) max	
Service Temperature	-40°F (-40°C) min. / 248°F (120°C) max	
Visual Appearance	High Gloss	
Curing Details: Foot Traffic: Light Traffic Full Cure	 6-10 hours 36 hours 5-6 days / ¼" (6mm)	

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

AVM INDUSTRIES INC

www.avmindustries.com

AVM Top Coat Sealer 620-A

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 01/15/2021 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : AVM Top Coat Sealer 620-A

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

AVM Industries, Inc.

8245 Remmet Ave

Canoga Park, CA 91304

Tel: 818-888-0050

Fax: 818-888-0030

www.avmindustries.com

1.4. Emergency telephone number

Chemtrec 800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flam. Liq. 3	H226
Acute Tox. 4 (Inhalation:dust,mist)	H332
Eye Irrit. 2A	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Carc. 2	H351
STOT RE 1	H372

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger

Hazard statements (GHS US) :
H226 - Flammable liquid and vapor
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled
H351 - Suspected of causing cancer
H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) :
P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/Bond container and receiving equipment.
P241 - Use explosion-proof electrical/ventilating/lighting equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P260 - Do not breathe mist, spray.
P261 - Avoid breathing spray, mist.
P264 - Wash hands, forearms and face, clothing thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear eye protection, face protection, protective clothing, protective gloves

P284 - [In case of inadequate ventilation] wear respiratory protection.
P302+P352 - If on skin: Wash with plenty of soap and water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P304+P341 - If inhaled: If breathing is difficult, remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention.
P312 - Call a physician or poison control center if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use media other than water to extinguish.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer	(CAS-No.) 53880-05-0	50 - 100
Titanium dioxide	(CAS-No.) 13463-67-7	10 - 30
Propylene carbonate	(CAS-No.) 108-32-7	7 - 13
Solvent naphtha, petroleum, medium aliphatic	(CAS-No.) 64742-88-7	5 - 10
Isophorone diisocyanate	(CAS-No.) 4098-71-9	1 - 5

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing if pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Causes damage to organs through prolonged or repeated exposure. Suspected of causing cancer. May cause an allergy or asthma symptoms or breathing difficulties if inhaled. Causes serious eye irritation. Harmful if inhaled. May cause an allergic skin reaction.

Symptoms/effects after inhalation : Harmful if inhaled. May cause an allergy or asthma symptoms or breathing difficulties if inhaled.

Symptoms/effects after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May cause gastrointestinal irritation.

Chronic symptoms	:	Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	:	Foam. Alcohol foam. Carbon dioxide (CO_2). Dry chemical powder.
Unsuitable extinguishing media	:	If water is used, use very large quantities of cold water. The reaction between water and hot isocyanate may be vigorous.

5.2. Specific hazards arising from the chemical

Fire hazard	:	Flammable liquid and vapor.
Explosion hazard	:	Excessive pressure or temperature may cause explosive rupture of containers.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions	:	Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment. Prevent human exposure to fire, fumes, smoke and products of combustion. Use cold water spray to cool fire-exposed containers to minimize risk of rupture.
Protection during firefighting	:	Wear positive pressure NIOSH self-containted breathing apparatus. Avoid breathing smoke, fumes, and decomposition products.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8). In case of spills, beware of slippery floors and surfaces. Eliminate all sources of ignition.

6.1.1. For non-emergency personnel

Protective equipment	:	Wear Protective equipment as described in Section 8.
Emergency procedures	:	Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	:	Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	:	Do not touch or walk on the spilled product. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	:	Remove all sources of ignition. Avoid breathing of vapors. Wear appropriate respirator and other protective clothing. Ventilate. Shut off source of leak only if safe to do so. Soak up with absorbent material, and place in non-leaking containers for proper disposal. Cover container, but do not seal, and remove from work area. Prepare a decontamination solution of 2.0% liquid detergent and 3-8% concentrated ammonium hydroxide in water (5-10% sodium carbonate may be substituted for the ammonium hydroxide). Follow the precautions on the supplier's safety data sheets. Treat the spill area with the decontamination solution, using about 10 parts of the solution for each part of the spill, and allow it to react for at least 15 minutes. Carbon dioxide will be evolved, leaving insoluble polyureas. Residues from spill cleanup, even when treated as described may continue to be regulated under provisions of RCRA and require storage and disposal as hazardous waste. Slowly stir the isocyanate waste into the decontamination solution described above. Let stand for 48 hours, allowing the evolved carbon dioxide to vent away, residues may still be subject to RCRA storage and disposal requirements. Dispose of in compliance with all relevant, local, state, and federal laws and regulations regarding treatment.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : When handling, personal protective equipment should be utilized (see sections 6 & 8). All articles of clothing and protective equipment that may have come in contact with the material should be removed prior to entering eating areas. Individuals with a history of skin sensitization should avoid areas in which the material is employed. Avoid contact with skin, eyes and clothing. Do not ingest, breath in vapor or mist, or release into environment. Utilize tightly closed containers to store the material when not in use, the containers can be the original container or an approved alternative made from compatible material. Containers should not be reused. Avoid formation of dust and aerosols.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep container securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous.

Use non-sparking ventilation systems, approved explosion proof equipment and intrinsically safe electrical systems in areas where this product is used and stored. Ground and bond containers and receiving equipment. Avoid static electricity by grounding.

Do not cut, drill, grind, weld, or perform similar operations on or near containers. Do not pressurize containers to empty them. Ground all structures, transfer container and equipment to conform to the national electrical code. Use procedures that prevent static electrical sparks. Static electricity may accumulate and create a fire hazard.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Cyclohexane, 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethyl-, homopolymer (53880-05-0)		
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	PELs not established

Titanium dioxide (13463-67-7)		
ACGIH	ACGIH TWA (mg/m³)	10 mg/m³
ACGIH	Remark (ACGIH)	LRT irr; A3 (Confirmed Animal Carcinogen with Unknown Relevance to Humans: The agent is carcinogenic in experimental animals at a relatively high dose, by route(s) of administration, at site(s), of histologic type(s), or by mechanism(s) that may not be relevant to worker exposure. Available epidemiologic studies do not confirm an increased risk of cancer in exposed humans. Available evidence does not suggest that the agent is likely to cause cancer in humans except under uncommon or unlikely routes or levels of exposure)
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ total dust
OSHA	Regulatory reference (US-OSHA)	OSHA

Propylene carbonate (108-32-7)		
OSHA	Remark (OSHA)	OELs not established
AGGIH	Remark (AGIH)	OELs not established

Solvent naphtha, petroleum, medium aliphatic (64742-88-7)		
OSHA	Remark (OSHA)	OELs not established
ACGIH	Remark (ACGIH)	OELs not established

Isophorone diisocyanate (4098-71-9)		
ACGIH	ACGIH TWA (ppm)	0.005 ppm
ACGIH	Remark (ACGIH)	TLV® Basis: Resp sens

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment symbol(s):

Personal protective equipment:

Gloves. Protective goggles. Protective clothing.

Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Eye protection:

Chemical goggles or full face shields are recommended to pretect against splash of liquids.

Skin and body protection:

Avoid skin contact by wearing chemically resistant suit protecting against chemicals, chemically resistant gloves, a chemically resistant apron and other protective equipment depending upon conditions of use. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Inspect gloves and contact equipment for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Respiratory protection:

Use NIOSH (or other equivalent national standard) -approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Viscous liquid.
Color	:	White
Odor	:	Mild chemical
Odor threshold	:	No data available
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	149 °C
Flash point	:	52 °C
Relative evaporation rate (butyl acetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	Slower than ether
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	Heavier than air
Relative density	:	1.09
Specific gravity / density	:	9.07 lb/gal
Solubility	:	Reacts with water.

Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

VOC content : 0.42 lb/gal

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Material is stable at standard temperature and pressure.

10.3. Possibility of hazardous reactions

Will not occur under normal conditions but under high temperatures in the presence of alkalis, tertiary amines, and metal compounds will accelerate polymerization. Possible evolution of carbon dioxide gas may rupture closed containers.

10.4. Conditions to avoid

Heat, high temperature, open flame, sparks, moisture. Contact with incompatible materials in a closed system will cause liberation of carbon dioxide and buildup of pressure.

10.5. Incompatible materials

This product with react with any material containing active hydrogens, such as water, alcohol, ammonia, amines, alkalis and acids, the reaction with water is slow under 50 °C, but is accelerated at higher temperature and in the presence of alkalis, tertiary amines, and metal compounds. Some reactions can be violent. Material can react with strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon dioxide, carbon monoxide, nitrogen oxides, trace amounts of hydrogen cyanide and unidentified organic compounds may be formed during combustion.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Harmful if inhaled.

Titanium dioxide (13463-67-7)	
LD50 oral rat	> 10000 mg/kg

Propylene carbonate (108-32-7)	
LD50 oral rat	29000 mg/kg (Source: IUCLID)
LD50 dermal rabbit	> 20 ml/kg (Source: NLM_CIP)

Solvent naphtha, petroleum, medium aliphatic (64742-88-7)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	3000 mg/kg
LC50 Inhalation - Rat	> 5.28 mg/l/4h

Isophorone diisocyanate (4098-71-9)	
LD50 oral rat	1097 mg/kg
LD50 dermal rabbit	1060 - 4780 mg/kg
LC50 Inhalation - Rat	0.135 mg/l/4h (mist)

Skin corrosion/irritation : Isocyanates react with skin protein and moisture and can cause irritation. Prolonged contact can cause reddening, swelling, rash, scaling,
blistering, and, in some cases, skin sensitization. Individuals who have developed a skin sensitization can develop these symptoms as a
result of contact with very small amounts of liquid material or as a result of exposure to vapor. Causes mild skin irritation. Does not meet classification criteria.

Serious eye damage/irritation	:	Causes serious eye irritation. Liquid, aerosols or vapors are severely irritating and can cause pain, tearing, reddening and swelling. Prolonged vapor contact may cause conjunctivitis. Any level of contact should not be left untreated. Causes serious eye irritation
Respiratory or skin sensitization	:	May cause an allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Suspected of causing cancer.

Titanium dioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans

Reproductive toxicity	:	Not classified
STOT-single exposure	:	Not classified
STOT-repeated exposure	:	Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	:	Not classified
Viscosity, kinematic	:	No data available
Symptoms/effects	:	Causes damage to organs through prolonged or repeated exposure. Suspected of causing cancer. May cause an allergy or asthma symptoms or breathing difficulties if inhaled. Causes serious eye irritation. Harmful if inhaled. May cause an allergic skin reaction.
Symptoms/effects after inhalation	:	Harmful if inhaled. May cause an allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms/effects after skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Symptoms/effects after eye contact	:	Causes serious eye irritation.
Symptoms/effects after ingestion	:	May cause gastrointestinal irritation.
Chronic symptoms	:	Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure. 0001333-86-4 CARBON BLACK CARCINOGENIC EFFECTS: In 1996, the IARC reevaluated Carbon Black as a Group 2B carcinogen. This evaluation is given to carbon black for which there is inadequate human evidence, but sufficient animal evidence. Prolonged inhalation of Carbon black can result in lung disease. Symptoms include coughing, shortness of breath, wheezing and reduced pulmonary function.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	:	Containers used for disposal of this material should be identified as waster and note the contents of the waste. Do not mix material with other waste containing strong oxidizing agents. Waste containers should be tightly sealed and kept away from high heat environments. Disposal of material should proceed in a manner which prevents environmental release into food sources, soil, waterways, drains and sewers.
Product/Packaging disposal recommendations	:	Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment. Empty containers retain product residue which may exhibit hazards for material, therefore do not pressurize, cut, glaze, weld, or use for other purposes. Return drums to reclamation centers for proper cleaning and reuse.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description	:	UN1263 Paint, 3, III
UN-No.(DOT)	:	UN1263
Proper Shipping Name (DOT)	:	Paint
Class (DOT)	:	3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
Packing group (DOT)	:	III - Minor Danger
Hazard labels (DOT)	:	3 - Flammable liquid

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	220 L
DOT Vessel Stowage Location	:	A - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel.
Emergency Response Guide (ERG) Number	:	128
Other information	:	No supplementary information available.

Transportation of Dangerous Goods

Not applicable

Transport by sea (IMDG)

Transport document description (IMDG)	:	UN 1263 PAINT, 3, III
UN-No. (IMDG)	:	1263
Proper Shipping Name (IMDG)	:	PAINT
Class (IMDG)	:	3 - Flammable liquids
Packing group (IMDG)	:	III - substances presenting low danger
Limited quantities (IMDG)	:	5 L

Air transport (IATA)

Transport document description (IATA)	:	UN 1263 Paint, 3, III
UN-No. (IATA)	:	1263
Proper Shipping Name (IATA)	:	Paint
Class (IATA)	:	3 - Flammable Liquids
Packing group (IATA)	:	III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

AVM Top Coat Sealer 620-A	
All chemical substances in this product are listed as “Active” in the EPA (Environmental Protection Agency) “TSCA Inventory Notification (Active-Inactive) Requirements Rule” (“the Final Rule”). as of Feb. 2019 or are otherwise exempt.	
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Serious eye damage or eye irritation Health hazard - Respiratory or skin sensitization Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Carcinogenicity

15.2. International regulations

No additional information available

15.3. US State regulations

WARNING: This product can expose you to Titanium dioxide, which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Component	Carcinogenicity	Developmental toxicity	Reproductive toxicity male	Reproductive toxicity female	No significant risk level (NSRL)	Maximum allowable dose level (MADL)
Titanium dioxide(13463-67-7)	X				Not available	
Carbon black(1333-86-4)	X					

Component	State or local regulations
Titanium dioxide(13463-67-7)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List
Solvent naphtha, petroleum, medium aliphatic(64742-88-7)	U.S. - New Jersey - Right to Know Hazardous Substance List
Isophorone diisocyanate(4098-71-9)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List
Carbon black(1333-86-4)	U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List; U.S. - Massachusetts - Right To Know List; U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

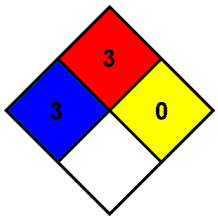
SECTION 16: Other information

Other information : Author: JLJ.

NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.

NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



HMIS Hazard Rating

Health : 3*

Flammability : 3

Physical : 0

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

AVM Top Coat Sealer 620-B

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Issue date: 01/21/2021 Version: 1.0

SECTION 1: Identification

1.1. Identification

Product form : Mixture

Product name : AVM Top Coat Sealer 620-B

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

AVM Industries, Inc.

8245 Remmet Ave

Canoga Park, CA 91304

Tel: 818-888-0050

Fax: 818-888-0030

www.avmindustries.com

1.4. Emergency telephone number

Chemtrec 800-424-9300

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Acute Tox. 4 (Oral)	H302
Acute Tox. 4 (Dermal)	H312
Skin Corr. 1C	H314
Skin Sens. 1	H317
STOT SE 1	H370
STOT RE 2	H373

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :

Signal word (GHS US) : Danger

Hazard statements (GHS US) : H302+H312 - Harmful if swallowed or in contact with skin
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H370 – Causes damage to organs
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary statements (GHS US) : P260 - Do not breathe mist, spray, vapors.
P261 - Avoid breathing mist, spray, vapors.
P264 - Wash hands, forearms and face, clothing thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P272 - Contaminated work clothing must not be allowed out of the workplace.
P280 - Wear eye protection, face protection, protective clothing, protective gloves
P301+P312 - If swallowed: Call a physician or poison control center if you feel unwell.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P302+P352 - If on skin: Wash with plenty of soap and water.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a physician or poison control center
P312 - Call a physician or poison control center if you feel unwell.
P314 - Get medical advice/attention if you feel unwell.
P321 - Specific treatment (see first aid instructions on this label).
P330 - Rinse mouth.

P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%
Cyclohexanemethanamine, 1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]-	(CAS-No.) 54914-37-3	30 - 60
Diethyltoluenediamine	(CAS-No.) 68479-98-1	30 - 60

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention. If breathing is difficult, supply oxygen. If breathing has stopped, give artificial respiration.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Get medical attention immediately. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

4.2. Most important symptoms and effects (acute and delayed)

Symptoms/effects : Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Causes damage to organs.

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Harmful if swallowed or in contact with skin.

Symptoms/effects after eye contact : Causes severe skin burns and eye damage.

Symptoms/effects after ingestion : Harmful if swallowed or in contact with skin.

Chronic symptoms : May cause damage to organs through prolonged or repeated exposure. Causes damage to organs.

4.3. Immediate medical attention and special treatment, if necessary

No additional information available

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Carbon dioxide. Foam.

Unsuitable extinguishing media : Use foam and water spray carefully to prevent excessive frothing.

5.2. Specific hazards arising from the chemical

Fire hazard : Heating may cause a fire.

Reactivity : This product will react with any material containing isocyanate. Some reactions can be violent.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Use cold water spray to cool fire-exposed containers to minimize risk of rupture. Do not dispose of fire-fighting water in the environment. Dispose of in accordance with relevant local regulations. Prevent human exposure to fire, fumes, smoke and products of combustion.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Notify authorities if product enters sewers or public waters. Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Do not touch or walk on the spilled product.

Methods for cleaning up : Eliminate ignition sources. Ventilate area. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

6.4. Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Avoid contact with skin, eyes and clothing. Prevent the build-up of electrostatic charge. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment. Proper grounding procedures to avoid static electricity should be followed.

Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Keep away from heat and direct sunlight. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Containers that have been opened must be carefully resealed to prevent leakage. Empty containers retain residue and may be dangerous. Protect from atmospheric moisture. Store in a cool, dry area. Store liquid in containers above ground and surround by dikes to contain spills or leaks.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Diethyltoluenediamine (68479-98-1)		
OSHA	Remark (OSHA)	PELs not established
ACGIH	Remark (ACGIH)	OELs not established

Cyclohexanemethanamine, 1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]- (54914-37-3)		
ACGIH	Remark (ACGIH)	OELs not established
OSHA	Remark (OSHA)	PELs not established

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment symbol(s):

Personal protective equipment:

Gloves. Wear chemical goggles and face shield in combination. Protective clothing. Insufficient ventilation: wear respiratory protection.

Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Be aware that the chemical may penetrate the gloves. Frequent changes are advisable. Suitable gloves for this specific application can be recommended by the glove supplier.

Eye protection:

Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Chemical goggles and face shield must be worn in combination.

Skin and body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection:

Use NIOSH (or other equivalent national standard) -approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Color	:	Black
Odor	:	Amine-like
Odor threshold	:	No data available
pH	:	No data available
Melting point	:	No data available
Freezing point	:	No data available
Boiling point	:	586 °F
Flash point	:	392 °F
Relative evaporation rate (butyl acetate=1)	:	No data available
Relative evaporation rate (ether=1)	:	Slower than ether
Flammability (solid, gas)	:	No data available
Vapor pressure	:	No data available
Relative vapor density at 20 °C	:	Heavier than air
Relative density	:	No data available
Specific gravity / density	:	7.81 lb/gal
Solubility	:	No data available
Log Pow	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available

Viscosity, dynamic	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available

9.2. Other information

VOC content	: 0.42 lb/gal

SECTION 10: Stability and reactivity

10.1. Reactivity

This product will react with any material containing isocyanate. Some reactions can be violent.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Will not occur.

10.4. Conditions to avoid

Heat, high temperature, open flame, and moisture.

10.5. Incompatible materials

Isocyanates.

10.6. Hazardous decomposition products

Organic vapors and thermal decomposition fragments.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Harmful if swallowed. If ingested: in humans, irritation, or chemicals burns of the mouths, pharynx, esophagus and stomach can develop following ingestion, and injury may be severe and cause death. Repeated and prolonged exposure at low levels may result in adverse skin and eye effects, liver and kidney disorders.
Acute toxicity (dermal)	: Harmful in contact with skin.
Acute toxicity (inhalation)	: Not classified

Diethyltoluenediamine (68479-98-1)	
LD50 oral rat	485 mg/kg
LD50 dermal rabbit	700 mg/kg

Cyclohexanemethanamine, 1,3,3-trimethyl-N-(2-methylpropylidene)-5-[(2-methylpropylidene)amino]- (54914-37-3)	
LD50 oral rat	> 5000 mg/kg

Skin corrosion/irritation	: Causes severe skin burns and eye damage. Product may be absorbed through skin and cause nausea, headache, and general discomfort.
Serious eye damage/irritation	: Eye damage, category 1, implicit
Respiratory or skin sensitization	: May cause an allergic skin reaction. Inhalation : Severe overexposure may induce respiratory sensitization with asthma like symptoms. These symptoms may be immediate or delayed up to several house after exposure. Chronic exposures may result in permanent decreases in lung function. Skin sensitiztion may develop after repeated and/or prolonged contact.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Causes damage to organs
STOT-repeated exposure	: May cause damage to organs through prolonged or repeated exposure.
Likely route of exposure	: Inhalation, ingestion, skin absorption
Aspiration hazard	: Not classified
Viscosity, kinematic	: No data available
Symptoms/effects	: Harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. Causes damage to organs

Symptoms/effects after inhalation	: May cause respiratory irritation.
Symptoms/effects after skin contact	: Harmful if swallowed or in contact with skin.
Symptoms/effects after eye contact	: Causes severe skin burns and eye damage.
Symptoms/effects after ingestion	: Harmful if swallowed or in contact with skin.
Chronic symptoms	: May cause damage to organs through prolonged or repeated exposure. Causes damage to organs.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste treatment methods	: Do not discharge to public wastewater systems without permit of pollution control authorities. No discharge to surface waters is allowed without an NPDES permit.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description	: UN1760 Corrosive liquids, n.o.s. (Amines), 8, III
UN-No.(DOT)	: UN1760
Proper Shipping Name (DOT)	: Corrosive liquids, n.o.s. Amines
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Packing group (DOT)	: III - Minor Danger
Hazard labels (DOT)	: 8 - Corrosive

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 5 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
DOT Vessel Stowage Location	: A - The material may be stowed ‘‘on deck’’ or ‘‘under deck’’ on a cargo vessel and on a passenger vessel.
DOT Vessel Stowage Other	: 40 - Stow ‘‘clear of living quarters’’
Emergency Response Guide (ERG) Number	: 154
Other information	: No supplementary information available.

Transportation of Dangerous Goods

Not applicable

Transport by sea (IMDG)

Transport document description (IMDG)	:	UN 1760 CORROSIVE LIQUID, N.O.S. (Amines), 8, III
UN-No. (IMDG)	:	1760
Proper Shipping Name (IMDG)	:	CORROSIVE LIQUID, N.O.S.
Class (IMDG)	:	8 - Corrosive substances
Packing group (IMDG)	:	III - substances presenting low danger

Air transport (IATA)

Transport document description (IATA)	:	UN 1760 Corrosive liquid, n.o.s. (Amines), 8, III
UN-No. (IATA)	:	1760
Proper Shipping Name (IATA)	:	Corrosive liquid, n.o.s.
Class (IATA)	:	8 - Corrosives
Packing group (IATA)	:	III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

AVM Top Coat Sealer 620-B	
All chemical substances in this product are listed as “Active” in the EPA (Environmental Protection Agency) “TSCA Inventory Notification (Active-Inactive) Requirements Rule” (“the Final Rule”). as of Feb. 2019 or are otherwise exempt.	
SARA Section 311/312 Hazard Classes	Health hazard - Acute toxicity (any route of exposure) Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation Health hazard - Specific target organ toxicity (single or repeated exposure) Health hazard - Respiratory or skin sensitization

15.2. International regulations

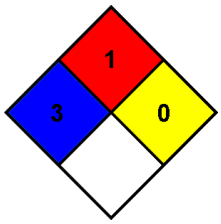
No additional information available

15.3. US State regulations

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Other information	:	Author: JLJ.
NFPA health hazard	:	3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard	:	1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	:	0 - Material that in themselves are normally stable, even under fire conditions.



HMIS Hazard Rating

Health	:	3*
Flammability	:	1
Physical	:	0

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

Aussie Membrane 520

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 03/14/2016 Supersedes: 10/20/2015 Version: 1.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name : Aussie Membrane 520

Product form : Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.3. Details of the supplier of the safety data sheet

AVM Industries, Inc.
8245 Remmet Ave
Canoga Park, CA 91304
Tel: 818-888-0050
www.avmindustries.com

1.4. Emergency telephone number

No additional information available

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin Irrit. 2 H315
Eye Irrit. 2A H319
Skin Sens. 1 H317

2.2. Label elements

GHS-US labelling

Hazard pictograms (GHS-US) :

GHS07

Signal word (GHS-US) : **Warning**

Hazard statements (GHS-US) : H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P261 - Avoid breathing mist, vapours
P264 - Wash hands, forearms and face thoroughly after handling
P272 - Contaminated work clothing must not be allowed out of the workplace
P280 - Wear eye protection, face protection, protective gloves, protective clothing
P302+P352 - If on skin: Wash with plenty of soap and water
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P321 - Specific treatment (see first aid instructions on this label)
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P363 - Wash contaminated clothing before reuse
P501 - Dispose of contents/container to a licensed hazardous-waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-hazardous waste

2.3. Other hazards

No additional information available

2.4. Unknown acute toxicity (GHS US)

No data available

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Name	Product identifier	%
Phosphonic acid, (2-ethylhexyl)-, bis(2-ethylhexyl) ester	(CAS No) 126-63-6	10 - 30*

*In accordance with paragraph (i) of the OSHA Hazard Communication Standard (29 CFR §1910.1200), the specific chemical identity or exact weight % has been withheld as a trade secret

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if breathing is affected. If breathing is difficult, supply oxygen.

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.

First-aid measures after eye contact : IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. If pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.

First-aid measures after ingestion : IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after skin contact : Causes skin irritation. May cause an allergic skin reaction.

Symptoms/injuries after eye contact : Causes serious eye irritation.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. carbon dioxide (CO_2). Sand. Extinguishing powder. Foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Heating may cause a fire.

Explosion hazard : Product does present an explosion hazard.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Precautionary measures fire : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Do not dispose of fire-fighting water in the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Other information : Dense smoke emitted when burned without sufficient oxygen.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

6.1.1. For non-emergency personnel

Protective equipment : Wear Protective equipment as described in Section 8.

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

Methods for cleaning up : Ensure there is adequate ventilation. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. This material and its container must be disposed of in a safe way, and as per local legislation.

6.4. Reference to other sections

See Sections 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Use only in well-ventilated areas. Do not get in eyes, on skin, or on clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Take precautionary measures against static discharge.

Storage conditions : Store in a dry, cool and well-ventilated place. Keep the container tightly closed. Protect from sunlight. Prevent exposure to water. Store away from flammable substances. Containers which are opened should be properly resealed and kept upright to prevent leakage.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Phosphonic acid, (2-ethylhexyl)-, bis(2-ethylhexyl) ester (126-63-6)	
Remark (ACGIH)	OELs not established
Remark (OSHA)	OELs not established

8.2. Exposure controls

Appropriate engineering controls : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

Personal protective equipment : Gloves. Protective goggles. Protective clothing.

Hand protection : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl. Suitable gloves for this specific application can be recommended by the glove supplier.

Eye protection : Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles.

Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection : Use NIOSH-approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Appearance : Sticky liquid.

Color : Grey.

Odor : No data available

Odor Threshold : No data available

pH : No data available

Relative evaporation rate (butylacetate=1) : No data available

Melting point : No data available

Freezing point : No data available

Boiling point : No data available

Flash point : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Flammability (solid, gas) : No data available

Vapour pressure : No data available

Relative vapour density at 20 °C : No data available

Relative density : No data available

Solubility : Insoluble in water.

Log Pow : No data available

Log Kow	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	No data available
Explosive properties	:	Product does present an explosion hazard.
Oxidising properties	:	No data available
Explosive limits	:	No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Heat. Open flame. Sparks.

10.5. Incompatible materials

Strong oxidizing agents. Nitric acid. Sulfuric Acid. Lead. acetic anhydride. Nitrobenzene. Ethylene oxide. hydrofluoric acid. Chlorine.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO_2). Water vapor. Volatile organic compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	:	Not classified
Skin corrosion/irritation	:	Causes skin irritation.
Serious eye damage/irritation	:	Causes serious eye irritation.
Respiratory or skin sensitisation	:	May cause an allergic skin reaction.
Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity (single exposure)	:	Not classified
Specific target organ toxicity (repeated exposure)	:	Not classified.
Aspiration hazard	:	Not classified
Symptoms/injuries after inhalation	:	May cause respiratory irritation.
Symptoms/injuries after skin contact	:	Causes skin irritation. May cause an allergic skin reaction.
Symptoms/injuries after eye contact	:	Causes serious eye irritation.
Symptoms/injuries after ingestion	:	May cause gastrointestinal irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : May cause long-term adverse effects in the environment.

12.2. Persistence and degradability

Aussie Membrane 520	
Persistence and degradability	Heavily removable from water.

12.3. Bioaccumulative potential

Aussie Membrane 520	
Bioaccumulative potential	May be accumulated in organism.

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

SECTION 14: Transport information

In accordance with DOT

Not hazardous for transport

Additional information

Other information : No supplementary information available.

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

Aussie Membrane 520	
All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory or are exempt	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

15.2. International regulations

No additional information available.

15.3. US State regulations

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Talc (14807-96-6)
U.S. - Massachusetts - Right To Know List U.S. - New Jersey - Right to Know Hazardous Substance List U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Indication of changes : Revision 1.0: New SDS Created.

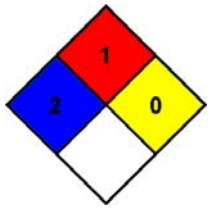
Revision date : 03/14/2016

Other information : Author: BCS.

NFPA health hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 2

Flammability : 1

Physical : 0

Personal Protection :

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

DIVISION 7 – THERMAL AND MOISTURE PROTECTION
Section 071800 – Pedestrian Traffic Coatings

Part 1 - General

1.1 Summary

A. This specification describes the application of a seamless waterproofing membrane that is resistant to specified traffic wear exposures. The specified products shall meet or exceed requirements of ASTM C957, High-Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane with Integral Wearing Surface.

1.2 Quality Assurance

A. Manufacturing qualifications: The manufacturer of the specified product shall be ISO 9001/9002 certified and have a recognized ongoing quality assurance program that is independently audited on a regular basis.

B. Contractor qualifications: Contractor shall be qualified in the field of concrete repair and protection with a successful track record of 5 years or more. Contractor shall maintain qualified personnel who have received product training by a manufacturer's representative.

C. Install materials in accordance with all safety and weather conditions required by the manufacturer or as modified by applicable rules and regulations of local, state and federal authorities having jurisdiction. Consult Material Safety Data Sheets for complete handling recommendations.

1.3 Delivery, Storage and Handling

A. All materials must be delivered in original, unopened containers with the manufacturer's name, labels, product identification, and batch numbers. Damaged material must be removed from the site immediately.

B. Store all materials off the ground and protect from rain, freezing or excessive heat until ready for use.

C. Condition the specified product as recommended by the manufacturer.

1.4 Job Conditions

A. Prior to starting work, read and follow the Safety Data Sheet (SDS) and all container labels for detailed health and safety information. Ensure all application instructions are reviewed and understood before proceeding.

B. Environmental Conditions Proceed with the application of materials only when the substrate temperature is 40°F (4°C) or higher. Do not begin if precipitation is imminent. Apply only to clean surfaces. Do not apply to dirty, or frosty substrates.

C. Protection: Precautions should be taken to avoid damage to any surface near the work zone due to mixing and handling of the specified coating.

D. Coordinate all waterproofing work with other trades. The applicator shall have exclusive access to the specified area for the duration required to complete the application and allow the pedestrian traffic coating to cure properly.

1.5 Submittals

A. **Technical Data:** Submit the manufacturer's product data sheets and current Safety Data Sheets (SDS) for each product in the pedestrian traffic coating system.

B. **Samples:** Provide representative samples of the specified pedestrian traffic coating system. Samples are for reference only and will serve to illustrate the intended color and texture of the finished system.

C. **Applicator Approval:** Submit a written statement from the manufacturer confirming that the proposed applicator is approved to install the specified pedestrian traffic coating system.

D. **Warranty:** Provide a copy of the manufacturer's standard warranty for the pedestrian traffic coating system.

1.6 Warranty

E. Provide a written warranty from the manufacturer against defects of materials for a period of ten (10) years, beginning with date of substantial completion of the project

Part 2 - Products

2.1 Manufacturers

A. AVM Industries, 8245 Remmet Ave. Canoga Park, CA 91304, is considered to conform to the requirements of this specification.

B. Any materials required for repair prior to installation shall be approved by the same supplier of the proposed traffic coating system.

2.2 Materials

A. AVM System 620P Pedestrian Traffic Coating

1. AVM Gas-Lock 420 or AVM 401 epoxy primer (may be required)
2. AVM 520 PRO
3. AVM Mat 800
4. AVM Aussie Seal Sealant
5. 16/30 mesh silica quartz sand

B. AVM Topcoat 620-AL

C. Total dry film thickness exclusive of aggregate shall be 42 mils. See data sheet System Guide for coverage rates and application methods.

D. Aggregate shall be clean, rounded, oven dried quartz sand with a minimum gradation of 16/30 mesh for general areas or a 12/20 mesh for areas requiring extra slip resistance, with a minimum hardness of 6.5 per the Moh's scale. Aggregate shall be supplied in pre-packaged bags and be free of metallic or other impurities.

2.3 Performance Criteria

A. Properties of AVM 520 Pro

	AVM 520 Pro
Color	Gray
Total Volume Solids (ASTM D2697)	95%
VOC Content (ASTM D2369-81)	75 g/L
Low Temperature Flexibility	No Cracking at -40°
Tensile Strength (ASTM D412)	2.79 MPa (405 psi)
Elongation at Break (ASTM D412)	726%
Tearing Strength	15N/mm
Water Impermeability	Impermeable
Hydrostatic Pressure over 1/8" crack	17.5 psi
Remains in Place During Application (ASTM C836)	PASS (2 coats vertical @ 30 mils wet)
Resistance to Water (ASTM D2939)	PASS
Low Temperature Crack Bridging (ASTM C836)	PASS
Extensibility After Heat Aging (ASTM C836)	PASS
Adhesion Strength (ASTM C836)	17 lbf/in
Resistance to Decay (ASTM E154-99)	5% change
Water Vapor Transmission (ASTM E96-13)	.67 perms

B. Properties of AVM 620 Polyurea AL

	AVM 620 AL
Pot Life @75°F (24°C), 50% R.H.	15 ± 5 minutes
Tack Free Time	3-4 hours
Total Volume Solids (ASTM D2697)	97%
VOC Content (ASTM D2369-81)	0.49 lb/gal (59 gm/liter)
Tensile Strength (ASTM D412)	2500 +/- 100 pli (17.2 ± 0.7 kN/m)
Elongation at Break (ASTM D412)	800 +/- 100%
Tear Resistance (Die C, ASTM D624)	300 +/- 25 pli (52.5 ± 4.4 kN/m)
Hardness (ASTM D2240 shore A)	80 ± 3
Abrasion Resistance (ASTM D4060)	n/a
Viscosity @ 75°F (24°C)	Side A: 1500-2500 cps Side B: 50-150 cps
Specific Gravity	Side A: 1.05 ± 0.1 Side B: 0.99 ± 0.1

Part 3 – Execution

A.1 Surface Preparation

A. The substrate must be clean, dry, sound, and free of surface contaminants. Remove all traces of dust, laitance, grease, oils, curing compounds, form release agents and foreign particles by mechanical means, i.e. – milling, scarifying, shotblasting, etc., as approved by the engineer. Blow surface free of dust using compressed air line equipped with an oil trap. Surface must be clean, dry, and sound with an open texture. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application.

B. That the concrete was cured for a minimum of 28 days. (Minimum of 3,000 psi compressive strength). Water-cured treatment of concrete is preferred. The use of concrete curing agents, if any, shall be of the sodium silicate base only; others require written approval by AVM

C. Concrete should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means (CSP 3-4 per ICRI guidelines).

D. Plywood should be clean and smooth, APA and exterior grade, not less than 1/2" thick, and spaced and supported according to APA guidelines. Seams should be sealed with an approved sealant by the manufacture and detailed and may need imbedded fabric reinforcement.

E. Metal should be thoroughly cleaned by grinding or blast cleaning.

A.2 Priming

A. Not required with concrete and plywood. If excessive bubbling occurs or bond strength to concrete does not meet the manufacturer's recommendation, then AVM Gas Lock 420 or AVM Epoxy Primer 401 is required.

B. Once the substrate is clean and approved for installation per the manufacturer's guidelines, then pour the entire contents of part B into Part A and mix for 3 minutes using a 300-400 RPM drill with a Jiffy mixer attachment. Immediately after mixing, pour entire contents of pail onto substrate. Spread the material using a flat or 15 mil notched squeegee to deliver a minimum 12 mil coat. Back-roll the material using a 3/8" nap roller to ensure even coverage. Cure time will take approximately 2-4 hours and Polyurea must be installed within 12 hours of installation. (Unless sanded to refusal)

C. Metal – Consult AVM regarding proper preparation.

A.3 Detailing

A. For non-structural cracks up to 1/16 inch, Apply a detail coat of AVM 620 Polyurea at 24 mils wet, 4" wide, centered over the crack. Allow it to become tack-free before overcoating.

B. Cracks and joints over 1/16 inch up to 1 inch—Route and seal with approved polyether sealant and allow to cure. Apply a detail coat of AVM 620 at 24 mils wet, 4" wide with mat 800 reinforcing centered over the crack. Allow to become tack-free before overcoating.

C. Joints over 1 inch – Should be treated as expansion joints by others and approved by AVM Industries' technical group prior to installation.

A.4 Base Coat

A. Aussie Membrane 520 Pro may be applied to concrete that's been cured a minimum of seven (7) days. Depending on the amount of moisture, AVM Gas Lock 420 epoxy primer may be required. Do not apply the Aussie Membrane to waterlogged surfaces. Verify adhesion via a properly conducted pull test. Install base coat at 25 – 30 dry mils (approximately 50 square feet per gallon).

B. Allow coating to cure a minimum of 12hours at 70°F and 50% RH or until tack free between coats.

A.5 Topcoat/Aggregate Binder Coat -Method 1

A. Once base coat has cured apply an additional 10 mil coat of AVM 520 Pro to act as aggregate layer
B. Immediately broadcast 16/30 mesh sand into the wet surface at a rate of 15-20lbs per 100sf or to refusal
C. Sweep up and/or vacuum any loose or unbound aggregate
D. Premix AVM 620 Part A and Part B using a mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Do not estimate; portions are pre-measured. Add Part B and continue mixing until a homogenous mixture and color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture
E. Apply AVM Topcoat 620AL by roller, trowel or notched squeegee in a uniform coat at a minimum rate 100sf per gal(16 wet mils) take care to evenly apply the coating with no puddling
F. Allow coating to cure a minimum 2-3 hours at 70 degrees and 50% RH or until tack free. Allow a minimum of 4 hours prior to opening to foot traffic

A.6 Topcoat / Aggregate Binder Coat – METHOD 2

A. Premix AVM 620 Part A and Part B using a mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Do not estimate; portions are pre-measured. Add Part B and continue mixing until a homogenous mixture and color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture

B. Once the AVM 520 Base Coat has cured, apply the AVM Topcoat 620-AL aggregate binder coat by roller, trowel or notched squeegee in a uniform coat at a minimum rate of 100 sg.ft / gal (16 wet mils).

C. While the coating is still fluid, uniformly broadcast and thoroughly encapsulate by back rolling the proper 16/30 mesh aggregate into the coating at a rate of 10-15 Lbs. of aggregate per 100 square feet.

D. Allow coating to cure a minimum of 2-3 hours at 70°F and 50% RH or until tack free between coats, and a minimum of 4 hours before opening to pedestrian traffic.

A.7 Topcoat / Aggregate Binder Coat – METHOD 3

A. Premix AVM 620 Part A and Part B using a mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Do not estimate; portions are pre-measured. Add Part B and continue mixing until a homogenous mixture and color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture.

B. Apply the AVM Topcoat 620- AL Aggregate Binder Coat by roller, trowel or notched squeegee in a uniform coat at a minimum rate of 150-200 sq.ft./Gal (8-12 wet mils). Broadcast to refusal the aggregate at a rate of 15-20lbs per 100sf into the wet surface of the Aussie 620-AL coat. Cover the entire surface leaving no wet spots and allow to cure for a minimum of 2-3 hours.

C. Sweep up and/or vacuum up any loose or unbound aggregate.

D. Apply the AVM Topcoat 620-AL by roller, trowel or notched squeegee in a uniform coat at a minimum rate of 150- 200 sq.ft./ Gal (8-12 wet mils). Take care to evenly apply the coating with no puddling.

E. Allow coating to cure a minimum of 2-3 hours at 70°F and 50% RH or until tack free between coats, and a minimum of 4 hours before opening to pedestrian traffic.

A.8 Mock-up

A. 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.

A.9 Cleaning

A. Uncured materials can be removed from tools or other surfaces with an approved solvent(Xylene/Orange degreaser). Cured materials can only be removed by mechanical means.
B. Leave finished work and work area in a neat, clean condition without evidence of spillovers onto adjacent area
C. Refer to AVM maintenance instructions for typical cleaning methods

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

1. **Horizontal-to- Vertical Transitions:** Install a sealant cant at all horizontal-to-vertical junctions using Aussie Seal or an AVM-approved 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.

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

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

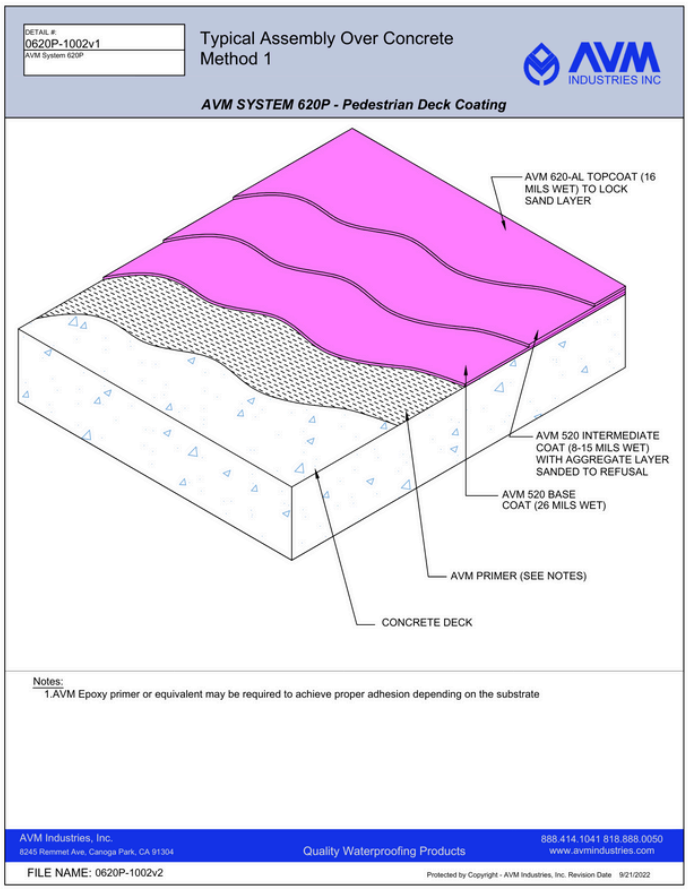
Method 1 – Sand Broadcast to Refusal with 520 Pro

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.

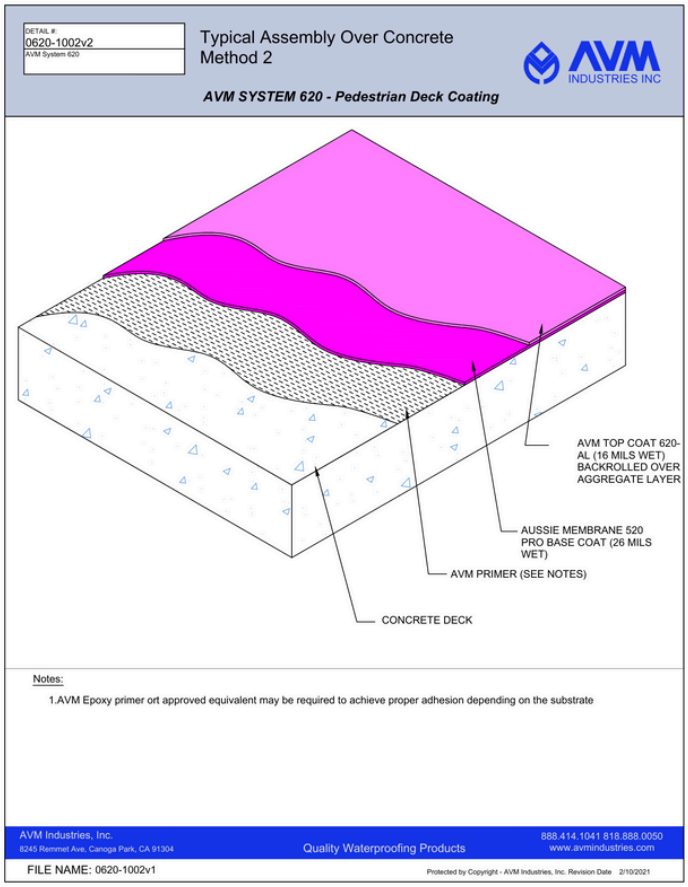
4. Topcoat Application
- Apply AVM Top Coat 620-AL using a roller, trowel, or notched squeegee.
- Apply uniformly at a minimum rate of 100 sq. ft. per gallon (16 wet mils).
- Take care to avoid puddling and ensure even coverage throughout.



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

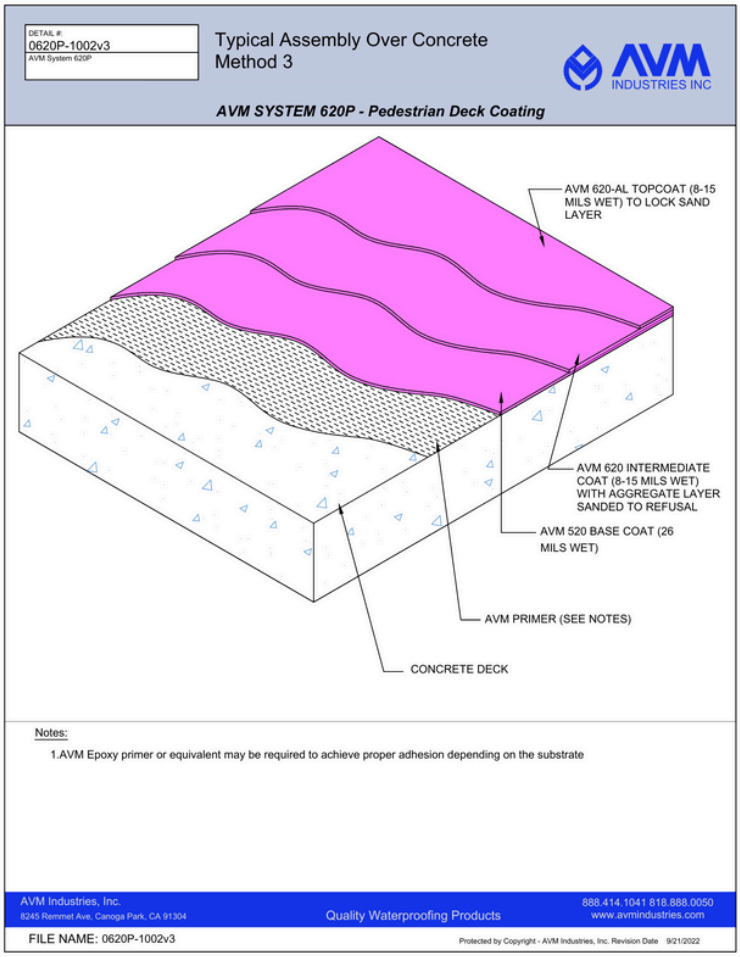
Method 3 – Sand Broadcast to refusal System with 620 - AL

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.



AVM INDUSTRIES INC

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 INDUSTRIES INC

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

Installation Instructions

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: ⩽ 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.

2. Based on controlled tests. Cure 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.

MIAMI-DADE COUNTY APPROVED

AVM INDUSTRIES INC

AVM System 620 Polyurea Deck Coating System Maintenance Guideline

GENERAL

This guideline is intended to provide a maintenance program for the installed AVM 620 Traffic Coating Systems to keep the system in optimal condition so it can function as designed. Maintenance for the AVM System 620 includes keeping up with periodic **Inspections, Cleaning, & Repairs**.

The AVM System 620 is a two-component, fast setting, rapid curing, solvent free, high performance, & high solids Polyurea/urethane MMA polymer waterproofing membrane that can be applied suitably to heavy duty wearing surface applications on prepared interior or exterior concrete, under asphalt overlays, plywood, & metal surfaces. For further product description and for installation guidelines please see AVM System 620 Traffic Coating Technical Data Sheets (pedestrian & vehicular).

INSPECTIONS

Because the deck coating system is exposed to general use, the system can be subject to aggressive conditions which can result in physical damage from traffic or damage from structural problems. It is important to schedule semi-annual inspections of the traffic coating which will ensure a longer life expectancy of the system. During these inspections keep in mind to include the following:

- Wear & Tear of the system including physical damage
- Cracking in the surface of the system which could be caused by structural cracks
- Areas with drains/scuppers to identify any clogs which could result in standing water on the deck
- Any areas in the structure that may have movement that can cause stress fractures in the system like where beams are resting on columns or where there are junctures of horizontal and vertical sections like walls.

CLEANING

Cleaning the deck is a helpful way to keep the deck preserved and to extend the life expectancy. It can also be a helpful way of identifying areas of damage that can occur from everyday use. Based on the usage of the deck, the frequency and rate of cleaning would vary.

AVM recommends sweeping and vacuuming the deck to remove dirt/debris/other obstructions on a weekly to semi-weekly basis depending on the deck's traffic frequency.

On a monthly to semi-monthly basis, a deeper and more thorough clean should be administered to the deck. This would include power scrubbing with a low suds or biodegradable detergent that is non-abrasive. When scrubbing, use soft bristles that will not cause as much friction. Rinse thoroughly to ensure the deck does not become too slippery when wet or stains from any residue from the detergent.

Another option for a more thorough clean would be power washing the deck with a blast from the nozzle that is less than 1,000 psi. If power washing, maintain at least 24" from the surface with the nozzle and use continuous motion to avoid any potential to damage the system.

For cleaning products, natural citrus products and diluted natural products are recommended. Avoid using strong bases or acid solvents that can damage the system.

Spills of petroleum fuels, solvents and alcohols should be cleaned up immediately as they can severely damage the coating.

8245 Remmet Ave, Canoga Park, CA 91304
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www.avmindustries.com

SNOW & ICE REMOVAL

Large piles of snow can load the deck beyond its designed capacity which may lead to structural cracks. These cracks, if large enough, could compromise the coating and allow water to bypass the system. Over time, this condition could delaminate the adjacent coating creating a larger area needing repairs.

For snow removal, metal blades should never be used as they can severely damage the coating system. Snow plows and snow blowers should have rubber blades that come in contact with the deck to avoid this type of damage.

Ice should be removed with chemical deicing products rather than the use of mechanical objects or objects with sharp edges. Deicing products should contain calcium, potassium or magnesium chloride. Products that are not permitted include large aggregates and/or rock salt.

REPAIRS TO COATING SYSTEM

Maintenance repairs to sealant and caulking areas may be completed by the onsite maintenance personnel. Repairs to the actual coating system should be completed by an approved applicator with direction from AVM.

The following steps should be taken to repair damaged and/or de-bonded areas of coating.

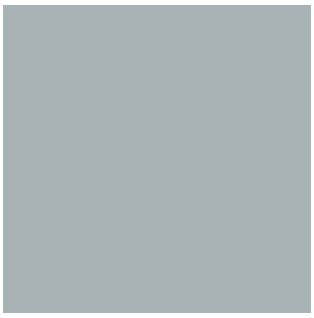
1. Remove all loose or damaged coating (typically by mechanically abrading) to expose a sound substrate
2. Clean the substrate and existing coating by solvent wiping the area with a cloth
3. Install the coating system to the specified thickness. The repaired area should extend onto the existing coating a minimum of 4 inches with a feathered edge.
4. Repaired areas must cure a minimum of 24 hours prior to receiving pedestrian or vehicular traffic

AVM INDUSTRIES INC

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.

AVM Sundries Checklist – 620P and 620V Systems

PROJECT NAME:		
DATE:	**WEATHER:**	**REPORT#:**

- ☐ Proper PPE - Masks, Safety Glasses
- ☐ Squeegee
- ☐ Knife/Razor Blades
- ☐ Snips
- ☐ Spike Roller
- ☐ Sandpaper/Sanding Block
- ☐ Chip Brushes - Throw aways
- ☐ Buckets – Quarts, Gallons & 5 Gallon
- ☐ 9" and 18" Rollers and Covers
- ☐ Tape
- ☐ Tape measure
- ☐ Paint/Roller Poles
- ☐ Blower
- ☐ Level
- ☐ Hammer
- ☐ Caulk Gun Tube/Sausage
- ☐ Compressor/hose
- ☐ Drill
- ☐ Mixing Blades
- ☐ Sand (Pedestrian 16 mesh/ Vehicular 12 mesh)
- ☐ Pneumatic Nail Gun
- ☐ Roofing Nails (Threaded)
- ☐ Angle Grinder
- ☐ Grinding wheel (Zec Disc)
- ☐ Spike Shoes
- ☐ Rags
- ☐ Zylene
- ☐ Trash Bags
- ☐ 4 Mil Poly/Rosin Paper
- ☐ Reinforcing Fabric for Crack Repair

Rev. 06/25/25

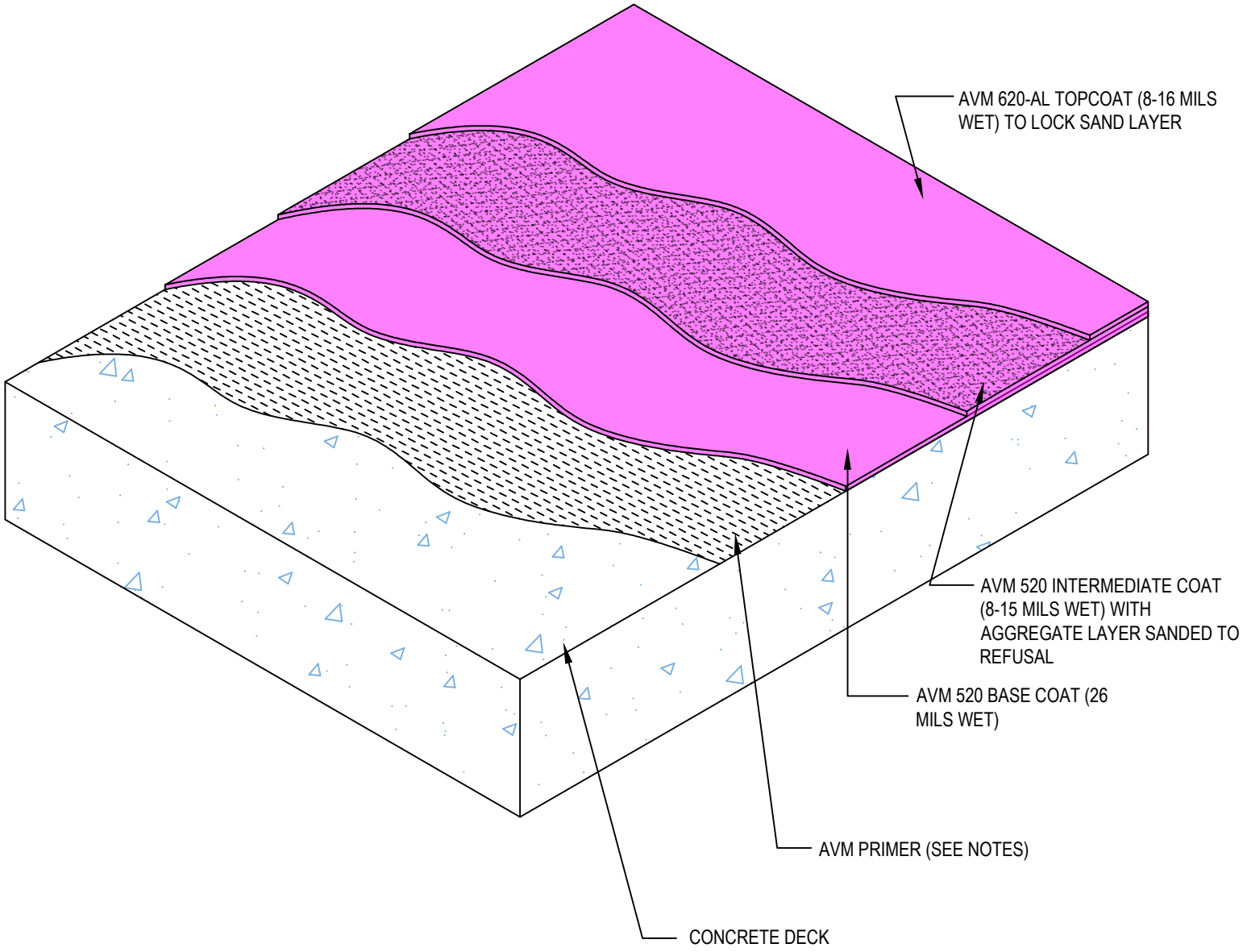
AVM Industries, Inc.
8245 Remmet Ave., Canoga Park, CA 91304
Tel: 818-888-0050

DETAIL #:
0620P-1002v1
AVM System 620P

Typical Assembly Over Concrete Method 1

AVM INDUSTRIES INC

AVM SYSTEM 620P - Pedestrian Deck Coating



Notes:

1. AVM Epoxy primer or equivalent may be required to achieve proper adhesion depending on the substrate

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Quality Waterproofing Products

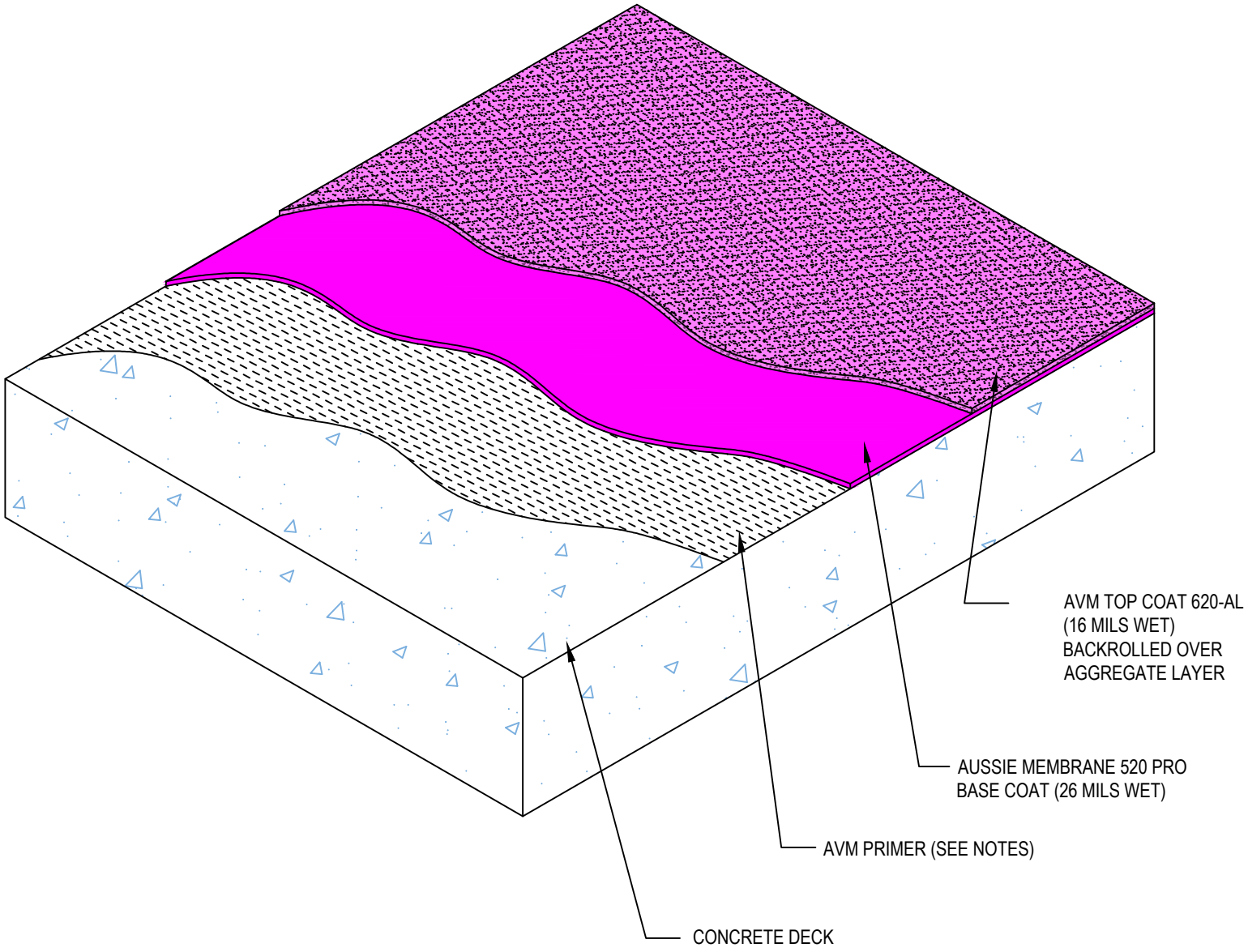
FILE NAME: 0620P-1002v2

DETAIL #:
0620-1002v2
AVM System 620

Typical Assembly Over Concrete Method 2

AVM INDUSTRIES INC

AVM SYSTEM 620 - Pedestrian Deck Coating



Notes:

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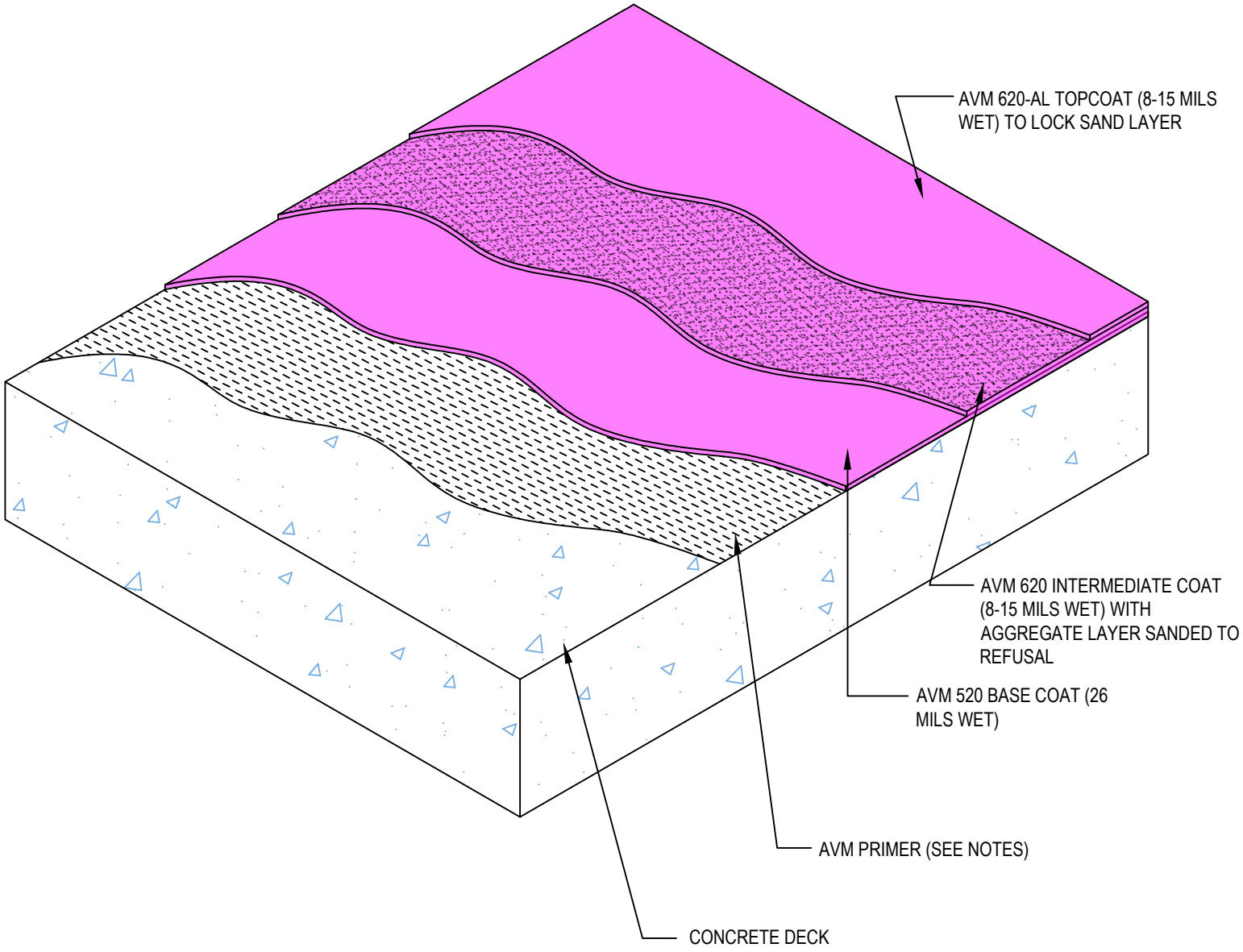
FILE NAME: 0620-1002v1

DETAIL #:
0620P-1002v3
AVM System 620P

Typical Assembly Over Concrete Method 3

AVM INDUSTRIES INC

AVM SYSTEM 620P - Pedestrian Deck Coating



Notes:

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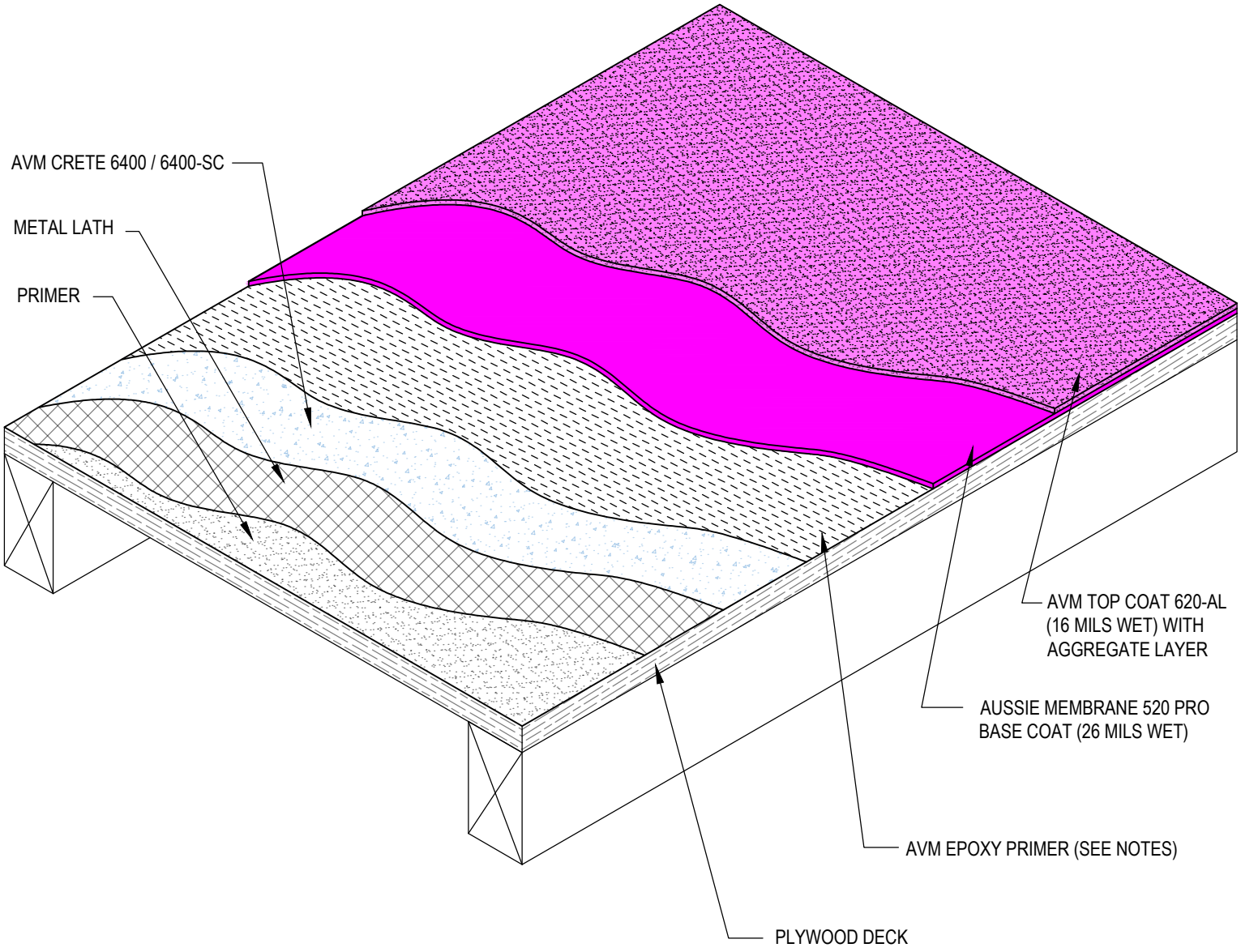
FILE NAME: 0620P-1002v3

DETAIL #:
0620-1004
AVM System 620

Typical Assembly Over Plywood with Crete 6400

AVM INDUSTRIES INC

AVM SYSTEM 620 - Pedestrian Deck Coating



Notes:

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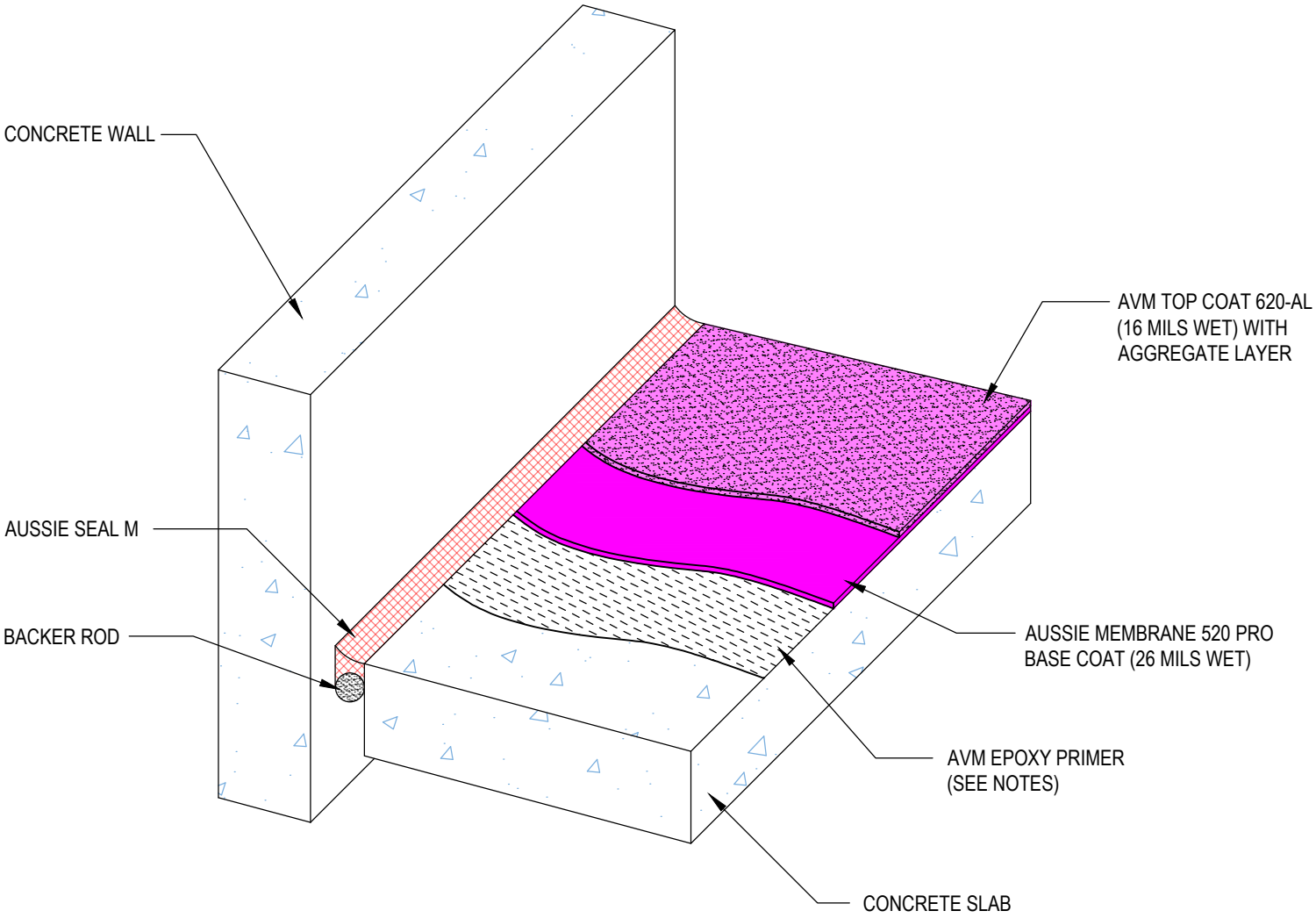
FILE NAME: 0620-1004

DETAIL #:
0620-1005
AVM System 620

Wall to Slab Joint with Backer Rod

AVM INDUSTRIES INC

AVM SYSTEM 620 - Pedestrian Deck Coating



Notes:

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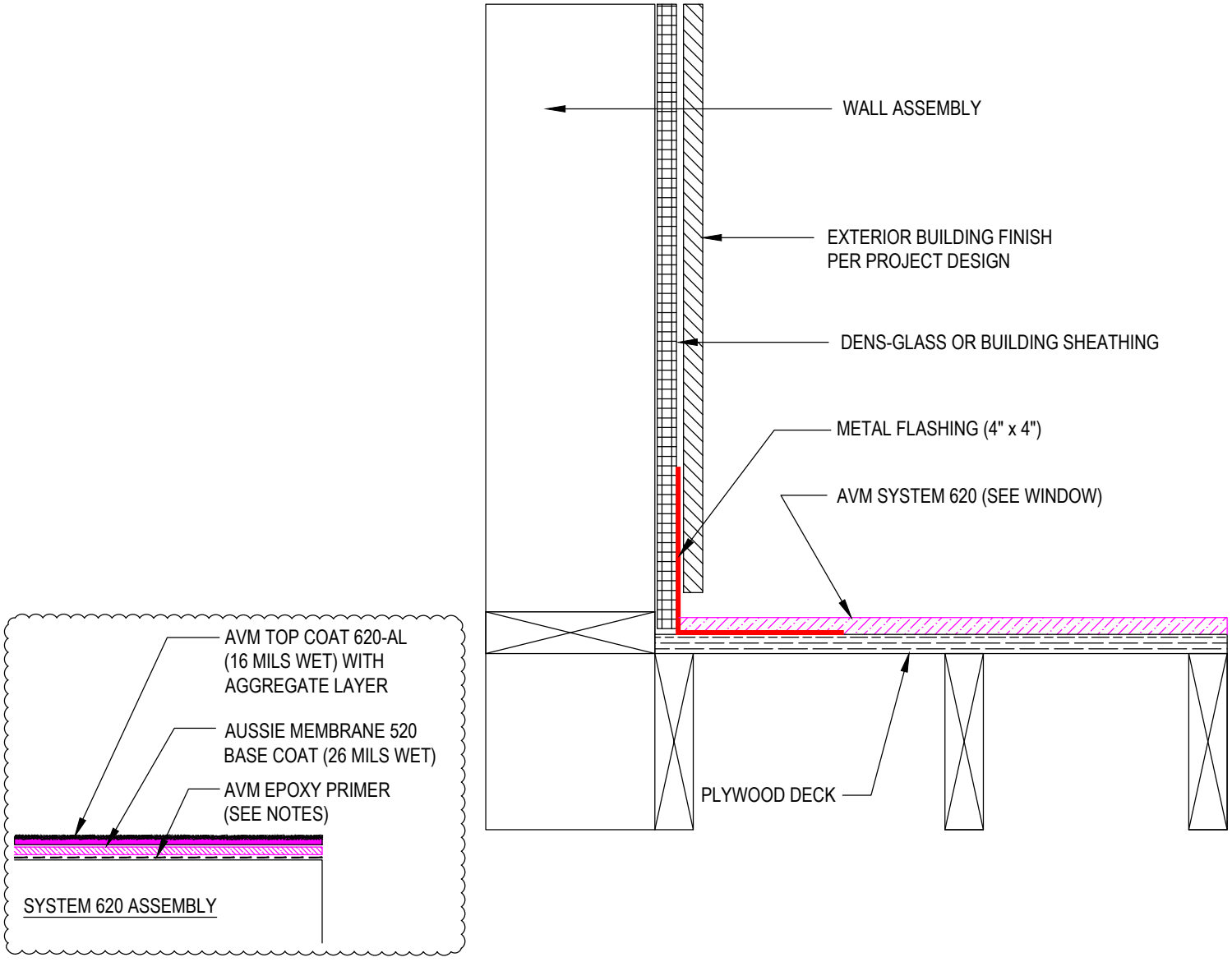
FILE NAME: 0620-1005

DETAIL #:
0620-1115
AVM System 620

Corner Transition with L Metal Plywood Deck

AVM INDUSTRIES INC

AVM SYSTEM 620 - Pedestrian Deck Coating



Notes:

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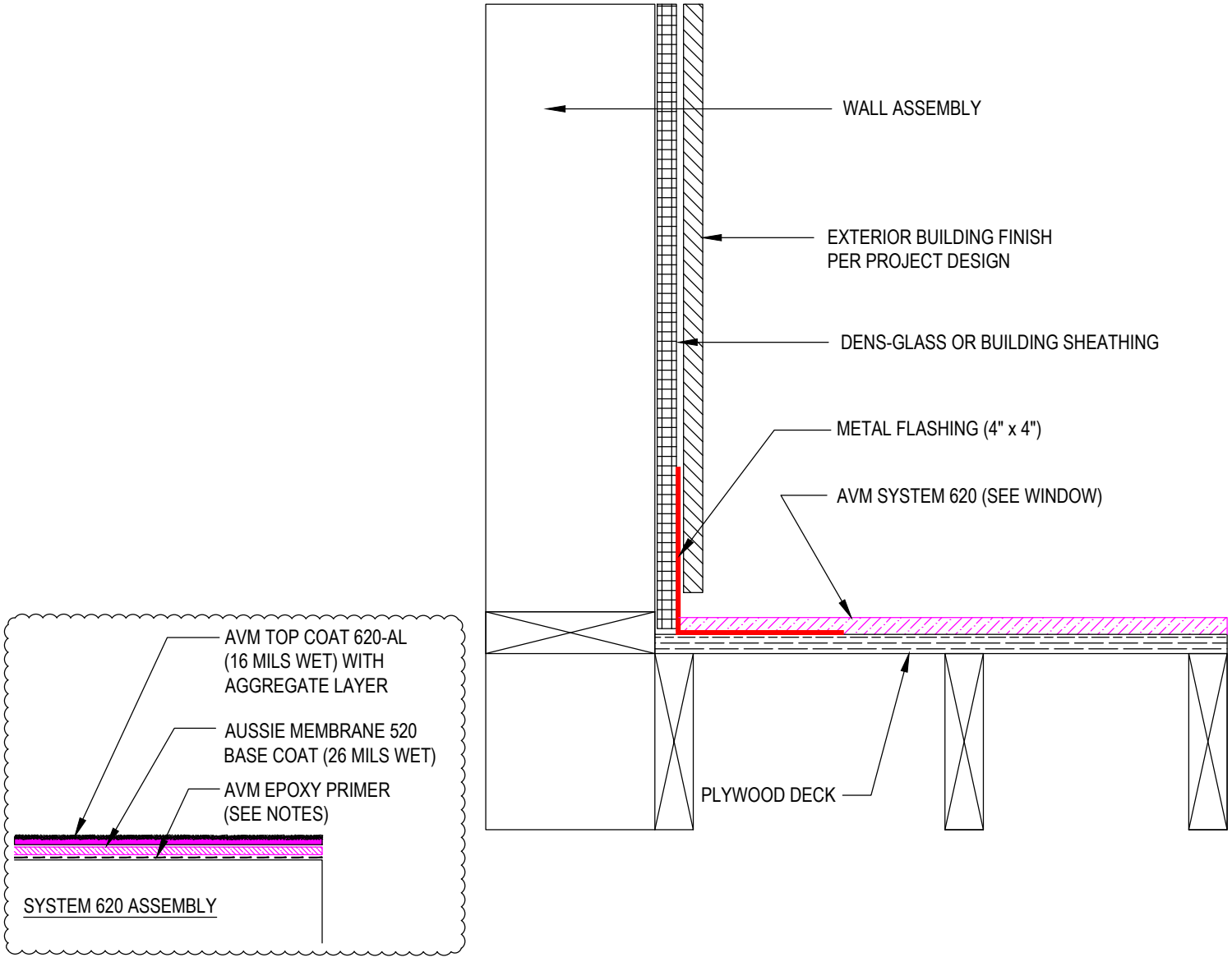
FILE NAME: 0620-1115

DETAIL #:
0620-1115
AVM System 620

Corner Transition with L Metal Plywood Deck

AVM INDUSTRIES INC

AVM SYSTEM 620 - Pedestrian Deck Coating



Notes:

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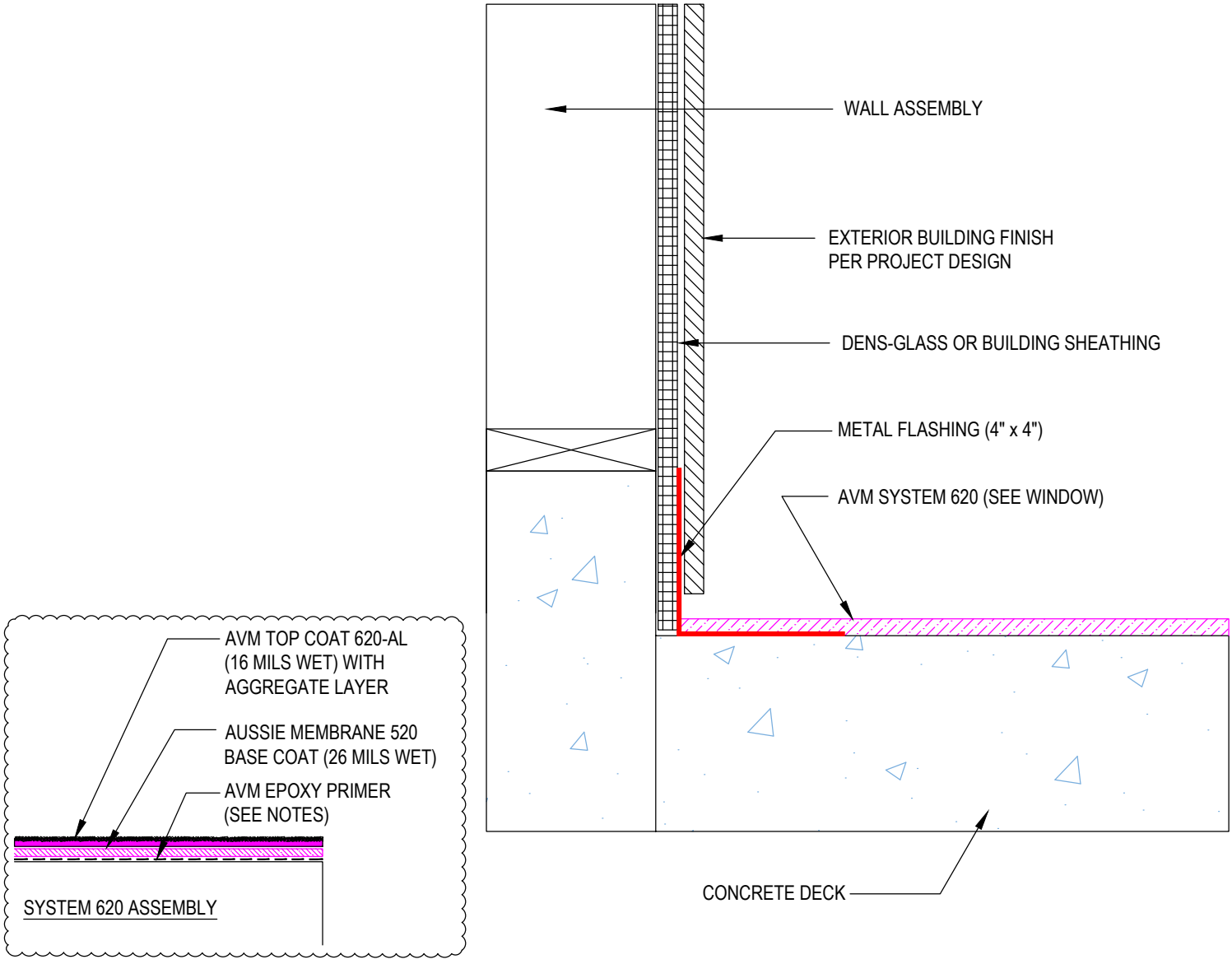
FILE NAME: 0620-1115

DETAIL #:
0620-1120
AVM System 620

Corner Transition with L Metal -Option 1
Concrete Deck

AVM SYSTEM 620 - Pedestrian Deck Coating



Notes:

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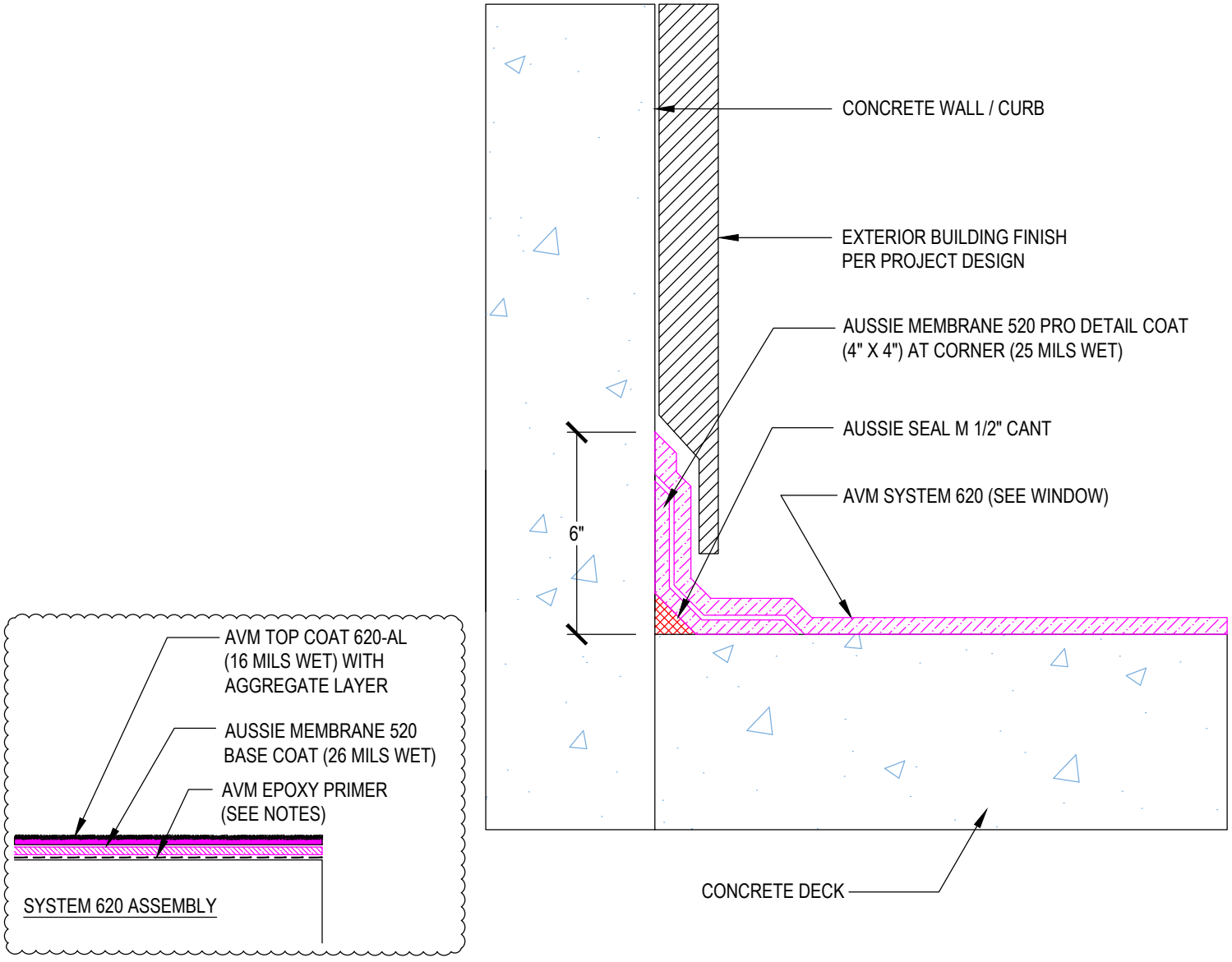
FILE NAME: 0620-1120

DETAIL #:
0620-1122
AVM System 620

Deck to Wall Transition - Option 2
Concrete Deck

AVM SYSTEM 620 - Pedestrian Deck Coating



Notes:

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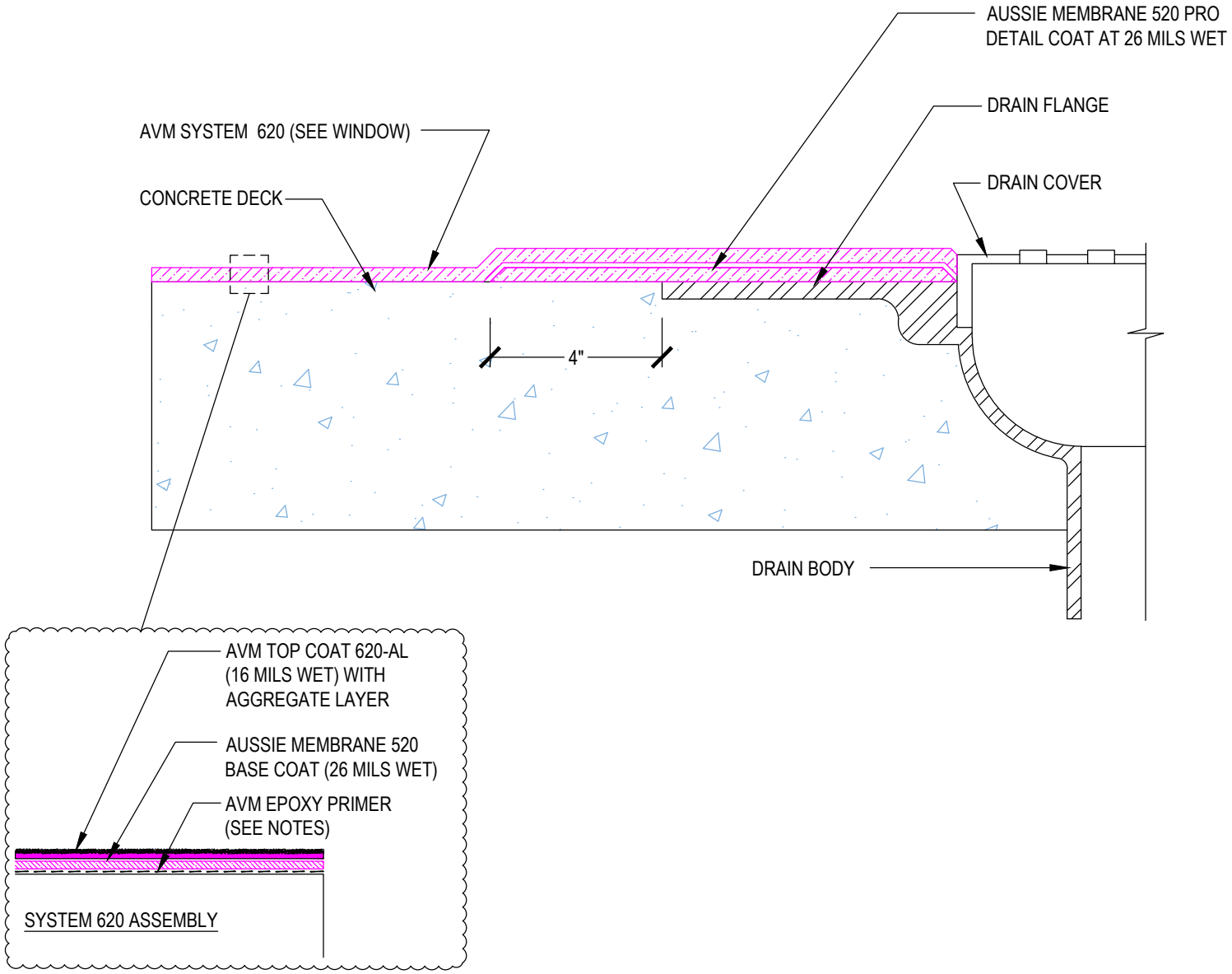
FILE NAME: 0620-1120

DETAIL #:
0620-1300
AVM System 620

Drain Assembly
Concrete Deck

AVM INDUSTRIES INC

AVM SYSTEM 620 - Pedestrian Deck Coating



Notes:

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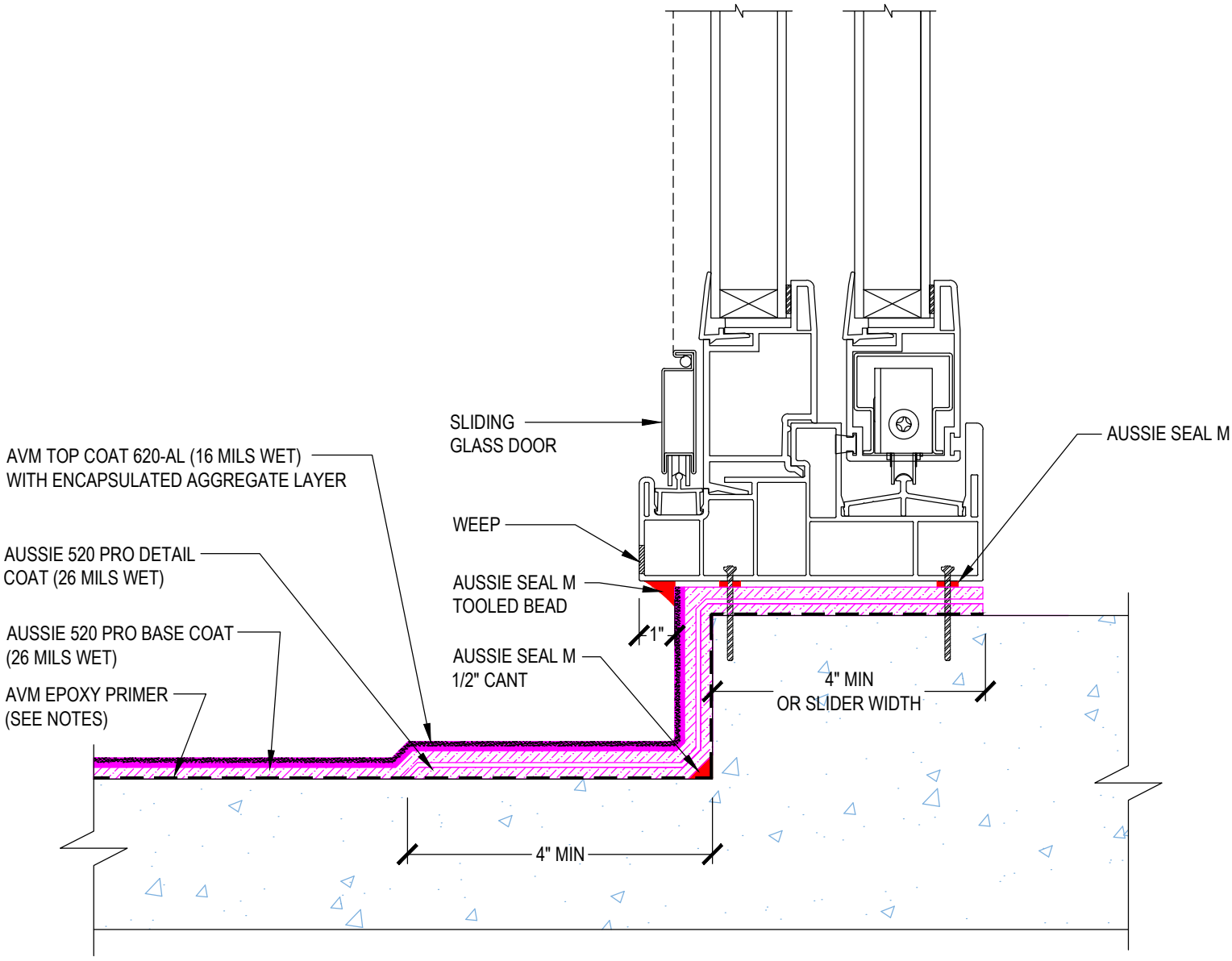
FILE NAME: 0620-1300

DETAIL #:
0620-1400
AVM System 620

Typical Slider Assembly - Option 1
Concrete Deck

AVM INDUSTRIES INC

AVM SYSTEM 620 - Pedestrian Deck Coating



Notes:

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FILE NAME: 0620-1400