



Aussie Coat™ 620V

Vehicular Traffic Coating

Hybrid, Aliphatic, Polyurea Deck Coating System for Vehicular Traffic

Generic Spec

Section 071800 / 071816 / 096700 / 096713

Product Name

Aussie Coat™ 620V

AVM System No.

Aussie Coat 620V

By

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

Product Description

The **Aussie Coat 620V** is a two component, fast setting, rapid curing, solvent free, high performance, and high solids Polyurea/urethane MMA polymer waterproof membrane that can be applied suitably to heavy duty wearing surface applications on prepared interior or exterior concrete, under asphalt overlays, plywood and metal surfaces.

Where to Use

Typical uses include Vehicular asphalt and concrete parking decks, pedestrian walkways, patios, stairways, sun rooms, metal roofs, etc.

Warranty

This system is eligible for a 5 year material warranty if installed per the data sheet instructions. The warranty period may be extended 5 years upon an inspection by AVM and a 15 mil recoat by an approved applicator.

Delivery, Storage, and Handling

- 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.
- 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 the reach of children.
- If irritation occurs during use, liberally flush affected areas with water. If irritation continues, see a physician immediately.

Installation

Coverage: Coverage for 1 mil thickness is one gallon of 620-AL (Aliphatic Urethane 620) per 1520 sq. ft. Follow installation guidelines on specific Technical Data Sheet for mil thickness requirements.

Surface Preparation: Ensure the substrate is smooth and does not contain any large voids. Protrusions should be flattened by grinding or hammering. **Aussie Coat 620V** can be installed over green concrete given that the surface is hard to the touch.

Mixing: 620-AL (Aliphatic Urethane 620) cannot be diluted under any circumstances and should not be estimated. Proportions are pre-measured. Using a mechanical mixer, first premix Part -A & Part-B separately. Mix thoroughly to obtain a uniform color, making sure to scrape the solids from the bottom and sides of the pail. Pour Part-B into Part-A slowly and while mixing, scrape the sides of the container. Mix for 1-2 minutes. Box the materials. Mix the combined Part-A and Part-B mixture thoroughly until uniform color is obtained.

Application: Examine the surface of the deck for pinholes. Where pinholes exist, use 620-AL (Aliphatic Urethane 620) as a fast cure primer by mixing the material at a 4:1.25 mix ration, and adding approximately 10% xylene and spread with a magic trowel to fill pinholes. Generally, 30 minutes after the pinholes are filled, the undiluted wear coat can begin at the normal 4:1 ratio.

Once both parts have been thoroughly mixed, pour mixed material out in a stream along short side of the deck and spread material out with a notched squeegee until desired thickness is achieved (please refer to separate application Technical Data Sheets). The pot life of 620-AL (Aliphatic Urethane 620) is approximately 15 minutes. Primer is not required on porous untreated concrete, but adhesion test are recommended to verify. Primer may be required for moisture control and/or installation over a preexisting urethane coating.

Vehicular Traffic Application

For applications that involve vehicular traffic over System 620, two separate layers of System 620 is required. For this application, ensure the substrate is suitable and any/all pinholes have been filled. Once the substrate is suitable and the 620-AL (Aliphatic Urethane 620) is mixed per the instructions

above, pour mixed material out in a stream and spread the material out with a notched squeegee until base coat is measured at minimum of 20 dry mils thick. Allow the first layer to cure 30 minutes prior to casting sand/aggregate into the tack base coat.

While the coating is still tacky but firm, broadcast 16-30 silica sand into the base coat. Allow the base coat to sit another 30 minutes prior to installation of the second alaphatic top coat. Once the 30 minutes has passed after broadcasting the sand, pour more mixed 620-AL (Aliphatic Urethane 620) over the top of the sand at a minimum of 20 dry mils thick. Allow top coat to properly cure. Backrolling is not required but may be utilized to help achieve a uniform finish. Primer is not required between coats. Allow a minimum of 12 hours before allowing traffic on the system.

Equipment Cleanup

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.

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.

Maintenance

Contact AVM for Details

Availability and Cost

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

Technical Services

Technical services are available by contacting our offices at: **888.414.1041** or **818.888.0050** or visit **www.avmindustries.com**

System Specifications

See below and next page.

Aussie Coat™ 620V 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

AVM System 620V is compliant with CSA S413-14

Packaging

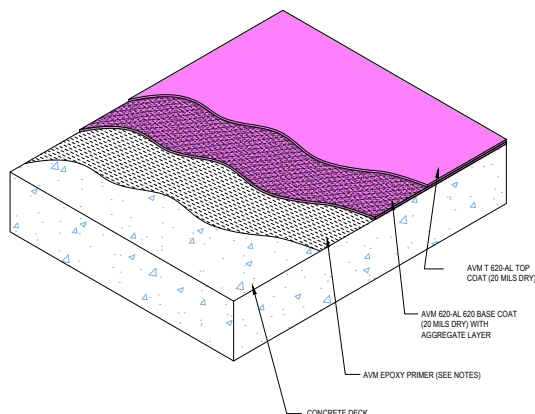
Item	Packaging	Approx Shipping Weights	No. of Kits per Pallet	Pallet Weights	VOC
620-AL 1 Gal Kit Part-A	0.8 Gallon	9 Lbs	180 Part-A on Pallet 1	1,680 Lbs	0.00 lb/gal
620-AL 1-Gal Kit Part-B	0.2 Gallon	21 Lbs	180 Part-B on Pallet 2	465 Lbs	0.00 lb/gal
620-AL 5-Gal Kit Part-A	4 Gallons	45 Lbs	48 Part-A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

Coverages

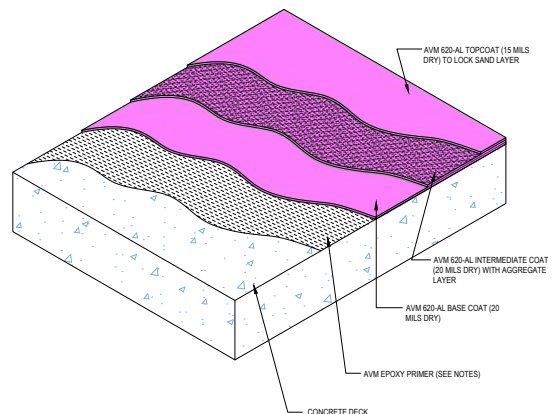
Item	Coverage Rate
AVM 620-AL Aliphatic @ 30 Mils	55 sqft/gal
AVM 620-AL Aliphatic @ 20 Mils	80 sqft/gal
AVM 620-AL Aliphatic @ 15 Mils	105 sqft/gal

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

Typical Vehicular Assembly Over Concrete



Maximum Slip Resistance for Heavy Traffic Areas



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 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

- 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.
- 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 the reach of children.
- 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 30 minutes to 2 hours. Cure time will vary depending on temperature and humidity. If more than 24 hours passes between coats, reprime surface with AVM Primer 401 or Primer 420.

Allow a minimum 30 minutes to 2 hours before permitting light pedestrian traffic and at least 12 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	VOC
Top Coat 620-AL (Part A & B Combined)	5 Gal Kit	56 lbs	60 g/l
Part-A (Net Contents 4 Gallons / 15.4 Liters)	5 Gal Bucket	45 lbs	60 g/l
Part-B (Net Contents 1 Gallons / 1.54 Liters)	1 Gal Bucket	11 lbs	60 g/l

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

Coverages

Item	Coverage Rate
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.

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Quality Waterproofing Products

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Aussie Gas-Lock 420-FC®

Epoxy Two-Component, Heavy Duty, High-Adhesion,
Moisture, Methane and VOC Barrier

Sections 071800 / 071813 Fluid
Applied Waterproofing

Product Name

Aussie Gas-Lock 420-FC®
Epoxy Two-Component, Heavy Duty, High-
Adhesion, Moisture, Methane and VOC Barrier

By

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

Product Description

(Now the single, consolidated epoxy primer,
vapor barrier, gas barrier & adhesion system)

Aussie Gas/Vapor Lock™ 420-FC is AVM's
next-generation, all-in-one epoxy primer
system. This advanced two component, 100%
solids, fast-cure epoxy technology combines
**moisture vapor mitigation, methane and
VOC suppression, deep substrate
penetration, and universal adhesion** into one
high-performance product suitable for
virtually all construction environments.

Designed for both **new construction and
demanding retrofit applications**, Aussie
Gas/Vapor Lock 420-FC creates a seamless,
chemically resistant barrier that protects
flooring systems—including resinous flooring,
rubber, vinyl, tile, carpet, engineered wood,
and elastomeric coatings—from moisture-
driven failures, gas intrusion, and poor
substrate adhesion. Tested performance
includes **moisture vapor tolerance up to 24
lbs/1000 ft² (ASTM F1869) and 100% RH
(ASTM F2170), with verified 100% methane
suppression at ≥30 mils DFT.**

With its **fast-cure formulation**, 420-FC allows
for light foot traffic in approximately four
hours, rapid recoating, and accelerated
construction schedules. Its low viscosity and
penetrating epoxy-polyamine characteristics
provide exceptional adhesion to concrete,
metal flashings, plywood, plastics, acrylic
coatings, polyurethane membranes, and
previously coated or marginal substrates.

The product can be applied to **damp or
green concrete as early as 14 days** after
placement. With **zero VOC emissions**, no
solvents or fillers, and pH resistance up to
>14, 420-FC is ideal for sensitive
environments such as hospitals, food and
beverage facilities, pharmaceutical plants,
industrial processing areas, and repurposed
commercial spaces

**Aussie Gas/Vapor Lock 420-FC is now the
single AVM primer solution for projects
requiring:**

- **Moisture Vapor Mitigation**
- **Methane and VOC Barrier Protection**
- **Substrate Consolidation and Deep Penetration**
- **Universal Primer Functionality**
- **Fast Cure & Schedule Acceleration**
- **Compatibility with All AVM Membranes & Fluid Applied Coatings**

Warranty

AVM industries will warrant the installed
membrane for up to fifteen (15) years. For
complete warranty details, contact AVM
industries or consult with your applicator.

Delivery, Storage, and Handling

a. Delivery of the Aussie Gas-Lock 420®/420-
FC materials to the job site must be in their
original sealed containers, with
manufacturer's name and label intact.

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

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

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.

Project Conditions

a. Do not apply materials at temperatures
below 50°F, or if precipitation is imminent, or
above 90°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

System Application

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 Gas-
Lock 420-FC to the substrate. Joints or
cracks should be sealed or filled prior to the
application of the AVM Gas-Lock 420-FC.
AVM Gas-Lock 420-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 Gas-Lock 420-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.

Installation

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

The **AVM Gas-Lock 420-FC** can be applied using
a sprayer, a brush, squeegee, or roller. Do not
overapply material. (Apply a thin coat). If
necessary, after the first coat has cured, apply a
second coat. Apply in an even and puddle-free
application at the approximate rate of 300 sq.ft.
per gallon. Where pinholes and small cavities are
present in the concrete, these voids should be
filled with primer and allowed to dry to prevent
outgassing in succeeding coats of deck coating.
Highly porous or difficult to paint substrates, such
as split face or routed blocks, raked joints, etc,
may need a second coat to ensure complete and
proper coverage and protection. A second
application can be made any time after the first
coat has sufficiently cured.

Quality Control

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

b. All unsatisfactory areas shall be re-coated
before proceeding with other coatings

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.

Product Specifications

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

Packaging:

Item / Component	Packaging	Approx Shipping Weights	VOC
AVM Epoxy Primer 420-FC Kit	3 Gal Kit	26 Pounds	0 g/L

Application Properties	
Pot Life (45°F/75°F/90°F)	20 mins/15 mins/7 mins
Curing Time / Light Foot Traffic (45°F/60°F/75°F/90°F)	12 hours/8 hours/4 hours/-3 hours
Minimum Recoat Time (45°F/60°F/75°F/90°F)	12 hours/8 hours/4 hours/-3 hours
Maximum Recoat Time (without light sanding) (45°F/60°F/75°F/90°F)	72 hours or by manufacturers guidelines on recoat windows
Full Cure - Full Chemical Resistance and Supports Heavy/Rolling	5-7 Days
Substrate Temperature	40°F-90°F
Application Humidity Dew Point	Slab Temperature + 5°F Above Dewpoint
Concrete Surface Profile (Consult ICRI 310.2R.I3)	CSP-3 (New Concrete); CSP-4 (Existing Concrete)
Shore D Hardness	82 at 48 Hours
Mold Resistance	Does not Promote Mold Growth per ASTM G21

Technical Data	Results	Test Criteria
Mixing Ratio (A:B byVolume)	2.43:1	
Density (75°F)	1.10 g/cm ³	
Volume solids	100%	
VOC Emissions	0.000 g/l	CA Department of Public Health CDPH/EHLB/ Standard Method Version 1.1
VOC Content	0.000 g/l	Calculated
Bond Strength to Concrete	>480 psi	ASTM D7234
Compressive Strength	14,500 PSI	ASTM D-1621
Tensile Strength	4300 PSI	ASTM D 412
Flash Point	>212°F	Calculated
Shore D Hardness	82 at 48 hours	Calculated
Alkalinity Tolerance	>PH of 14	ASTM F1869
Mold Resistance	Does not Promote Mold Growth per ASTM G21	ASTM G21
Vapor Mitigation	0.02 perms	ASTM E96-10
Vapor Barrier MVER @ 12 Mils	0.02 Perms	ASTM F3010
Methane Gas Transmission Rate @ 18 mils	21 mL/day*m ² *atm	ASTM D1434
Methane Gas Transmission Rate @ 30 mils	10 mL/day*m ² *atm	ASTM D1434
PCE Diffusion Coefficient @ 30 mils	5.89E-14	ASTM E96 Modified Procedure B

Approximate Coverage Rates		Standard 3 Gallon Kit
First thin coat to control pinholing	200 sq ft/gallon	480 sq ft per unit
10 mils	160 sq ft/gallon	384 sq ft per kit
12 mils	133 sq ft/gallon	320 sq ft per kit
15 mils	120 sq ft/gallon	288 sq ft per kit
20 mils	80 sq ft/gallon	192 sq ft per kit
30 mils	55 sq ft/gallon	132 sq ft per kit
40 mils	40 sq ft/gallon	96 sq ft per kit

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

Approval(s): <https://www.avmindustries.com/approvals/>
Learn more about the detailed standards our products meet for approvals by various US or International Agencies or Code Councils

Patent(s): <https://www.avmindustries.com/patents/>
Some features of our product or assembly may be protected under one or more US or International Patent(s)

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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

AVM Top Coat Sealer 620-A

Safety Data Sheet

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

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.

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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 (CO₂). 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-contained 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

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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

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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 protect 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.

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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
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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 will 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
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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.
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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.

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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 : 60 L
(49 CFR 173.27)
DOT Quantity Limitations Cargo aircraft only (49 : 220 L
CFR 175.75)
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

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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

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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.

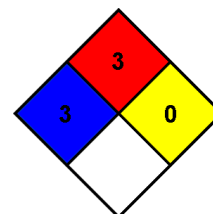
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.

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.



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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.

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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.

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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

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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

AVM Top Coat Sealer 620-B

Safety Data Sheet

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

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
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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
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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 hours after exposure. Chronic exposures may result in permanent decreases in lung function. Skin sensitization 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

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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 : 5 L
(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L
CFR 175.75)

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

AVM Top Coat Sealer 620-B

Safety Data Sheet

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

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

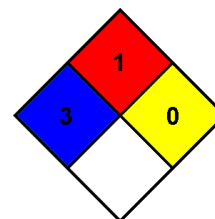
SECTION 16: Other information

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.

AVM SYSTEM 620V - Vehicular Traffic Coating



SYSTEM DESCRIPTION

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

WHERE TO USE

Typical uses include vehicular concrete parking decks, mechanical rooms, or any area needing 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.

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: Marine grade moisture cure polyether sealant used for metal flashing, cant strips, and detailing

12/20 silica sand/aluminum oxide 10-12 grit: Used as a broadcast sand/aggregate
For traction and grip as required.

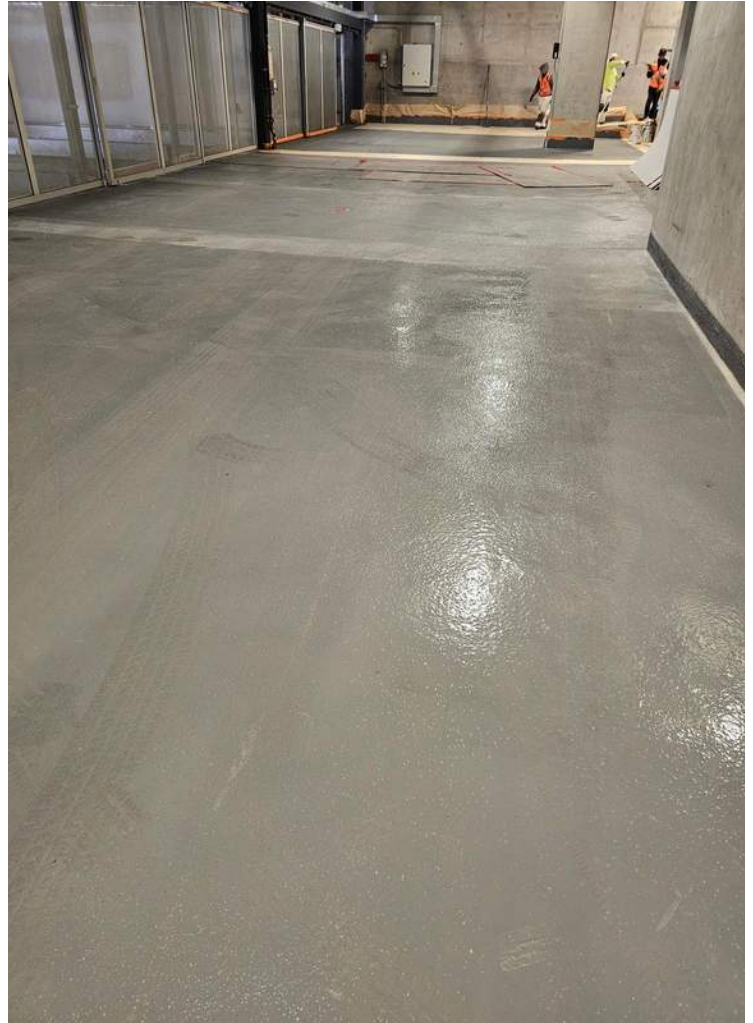
LIMITATIONS

- 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.
- Do not apply if precipitation is imminent during application or during curing.
- Epoxy primer may be required when substrate moisture levels are elevated
- Do not apply the membrane to waterlogged or visibly wet surfaces
- Adhesion must be verified with a properly conducted pull test prior to full application
- Install coating in descending temperatures to minimize the risk of outgassing or blistering
- Do not apply materials in direct sunlight or when ambient temperatures exceed 90 degrees Fahrenheit

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 (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.
 - 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 - Pending system method install (<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 520/620 pending method of application of Aussie Membrane 520

- For cracks larger than 1/4" 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:** Approx 1 hour pending temperatures and site conditions
- 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 6200/6400 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 –

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.

3.2 The Methods for Installation

Method 1 – 620AL/620AL (5 year warranty)

1. Base Coat Application
 - Apply AVM 620AL mixed material in a continuous stream along the short side of the podium/deck/parking structure using a notched squeegee, spread the material evenly at a rate of 80sf per gallon at a minimum of 20 dry mils (approx. 22 wet mils)
2. Aggregate Layer/Intermediate Layer
 - Once basecoat is firm enough to prevent the sand from sinking- typically 10-15 minutes after initial application -broadcast 12/20 silica sand to refusal (approx. 15-20lbs per 100sf) evenly into the basecoat. Ensure no wet spots are visible
 - Allow the base coat to cure approx. 60 minutes (pending temperatures and jobsite conditions) prior to the installation of the topcoat sweep/vacuum all loose or unbound sand. Do not allow coating to begin setting prior to broadcasting sand. It may initiate within 15 min
3. Topcoat Application
 - Apply a second coat of 620AL over the previous layer at a rate of 60-80sf per gallon (coverage may vary based on jobsite conditions). Ensure a minimum thickness of 20 dry mils (approximately 22 wet mils.)

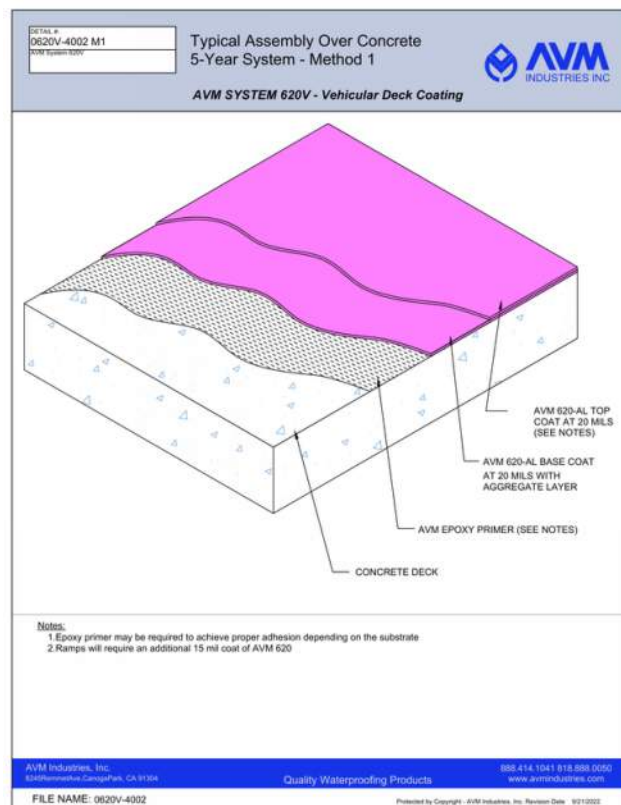
Broadcast additional sand at turn radii and ramps at approx. 10-15lbs per 100 SF. Avoid over encapsulation of aggregate.

Turn radii and ramps:

At all turn radii and ramps a 3rd coat of 620AL is required.

After 2nd coat has completely cured install a 3rd coat in these areas at a rate of 105 sf per gallon and a minimum 15 dry mils (approx. 17 wet mils)

- Take care to avoid puddling and ensure even coverage throughout.
- Grid area to ensure the adequate amount of material is applied in designated sections



SECTION 3 – Typical Installation

Method 2 – 520 Pro/620AL/620AL (5 year warranty)

1. Base Coat Application.

- Apply AVM Aussie Membrane 520 at 25 dry mils (approx. 27 wet mils)
- Allow a minimum of 12 hours, or until fully cured, before proceeding.

2. Intermediate aggregate broadcast

- Apply AVM 620-AL Coat using a trowel, or notched squeegee (**for best results**) at 15 dry mils (approx. 17 wet mils) Apply uniformly at a rate of 90 sq. ft. per gallon
- While the 620-AL is still wet, broadcast 12/20 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.

3. Clean Up Loose Aggregate

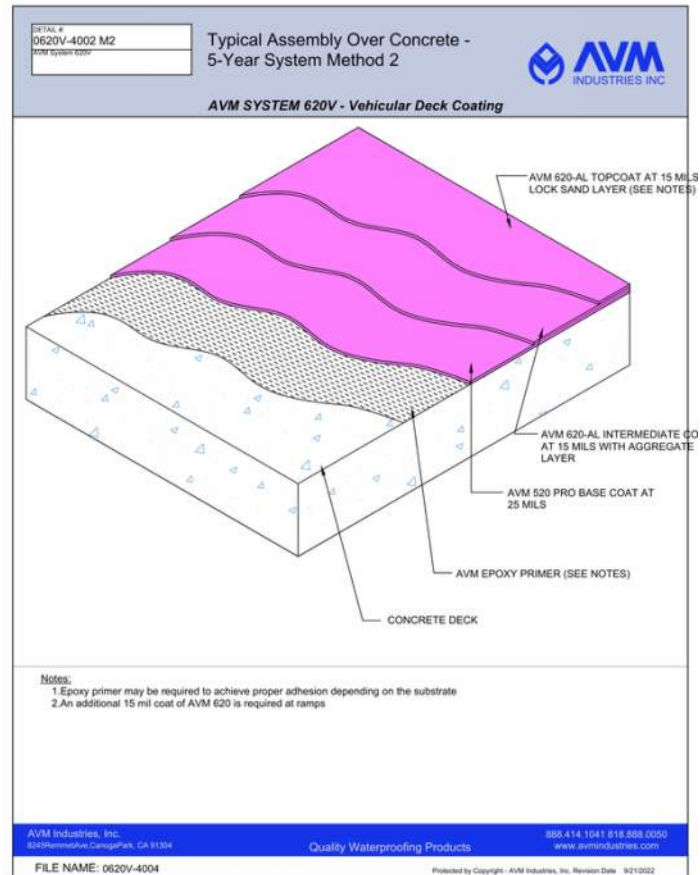
- Once the coating has cured, sweep and/or vacuum all loose or unbound aggregate.

4. Topcoat Application

- Apply AVM Top Coat 620-AL using a trowel, or notched squeegee (**a phenolic core roller may be used but extra care should be taken to prevent air bubbles**). Apply in a uniform coat at a minimum rate of 15 dry mils (17 wet mils)
- **Broadcast additional sand at turn radii and ramps at approx. 10-15lbs per 100 SF**

5. Turn radii and ramps

- At all turn radii and ramps a 4th coat of 620AL is required.
- After 3rd coat has completely cured install a 4th coat in these areas at a rate of 105 sf per gallon and a minimum 15 dry mils (approx. 17 wet mils)
- Ensure even coverage, avoiding puddling.
- Avoid over encapsulation of aggregate.



SECTION 3 – Typical Installation

Method 3 – 620AL/620AL/620AL (10 year Warranty)

1. Base Coat Application

- Apply AVM 620AL mixed material in a continuous stream along the short side of the podium/deck/parking structure using a notched squeegee, spread the material evenly at a rate of 80sf per gallon at a minimum of 30 dry mils (approx. 32 wet mils)

2. Intermediate aggregate broadcast

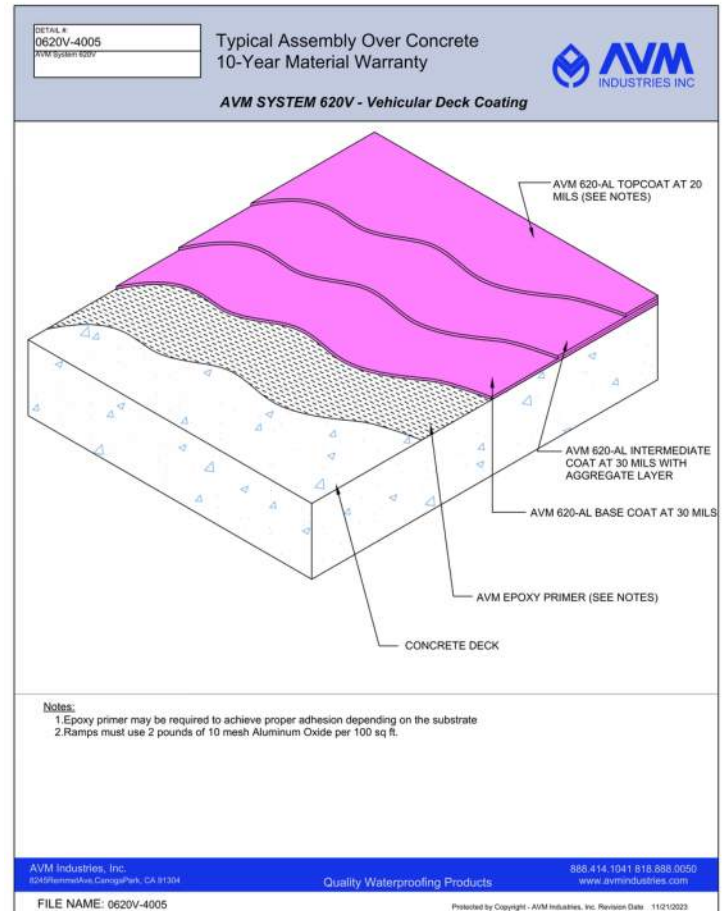
- Apply AVM 620-AL Coat 30 dry mils (approx 32 wet mils) using a trowel, or notched squeegee (for best results) at 30 dry mils (approx 32 wet, apply uniformly at a rate of 50 Sq. ft per gallon)
- While the 620-AL is still wet, broadcast 12/20 mesh sand to refusal (approximately 15–20 lbs per 100 sq. ft. but can suspend aggregate) across the entire surface. Ensure full coverage, leaving no wet spots.
- **All ramps require 10-12 mesh aluminum oxide (The use of Aluminum Oxide is recommended in all freeze/thaw regions)**
- Do not allow the coating to begin setting prior to broadcasting or where more coarse aggregate is required. 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 60 minutes, depending on weather conditions.

3. Clean up loose aggregate

- Once coating has cured, sweep and/or vacuum all loose or unbound aggregate

4. Topcoat Application

- Apply AVM Top Coat 620-AL using a trowel, or notched squeegee (a phenolic core roller may be used but extra care should be taken to prevent air bubbles). Apply in a uniform coat at a minimum rate of 20 dry mils (22 wet mils) approx 80 sf per gallon
- Avoid over encapsulation of aggregate.



Aussie Coat 620V 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	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.

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

Technical Properties:

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

AVM System 520 Technical Information

Technical Information	Test Method	Test Results
Color		Gray
Solid Content		≥ 95%
VOC Content		75 g/L
Low Temperature Flexibility		No Cracking at -40° (-40°C)
Tensile Strength		2.79 MPa (405 psi)
Elongation at break		726%
Tearing Strength		15 N/mm
Water Impermeability (at .03 MPa, 30 mins)		Impermeable
Resistance to Water	ASTM D 2939	PASS
Low Temperature Crack Bridging	ASTM C836	PASS
Extensibility After Heat Aging	ASTM C836	PASS
Adhesion Strength	ASTM C836	17 lbf/in
Remains in Place During Application	ASTM C 836	PASS (2 coats vertical @ 30 mils wet)
Resistance to Decay (Requirement: ≤ 10%)	ASTM E154-99	5% change
Water Vapor Transmission (Requirement: ≤ 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 Dampproofing and Waterproofing Materials.

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

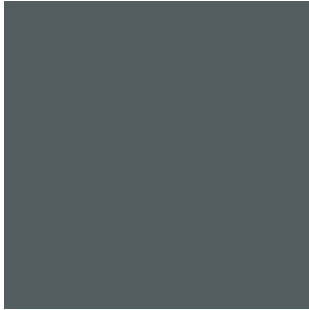
Item/Component	Packaging	Approx. Shipping Weights	Qty / Pallet	Weight / Pallet	Pallets/ Truck	VOC
Aussie Membrane 520	5-Gal Pail	60 lbs.	36	2260 lbs	20	75 g/L

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.

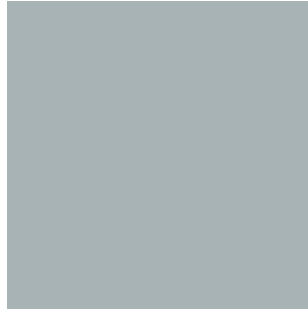


Aliphatic Top Coat Colors

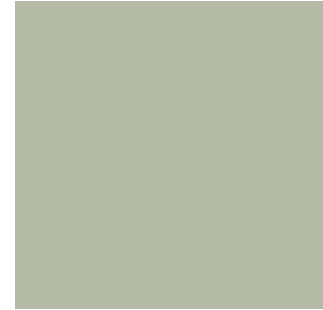
Standard Color (Stocked Item) : Medium Gray
All other colors are special order



Dark Gray



Medium Gray



Light Gray



Chocolate



Ash Brown



Brick Red



Dark Tan



Tan

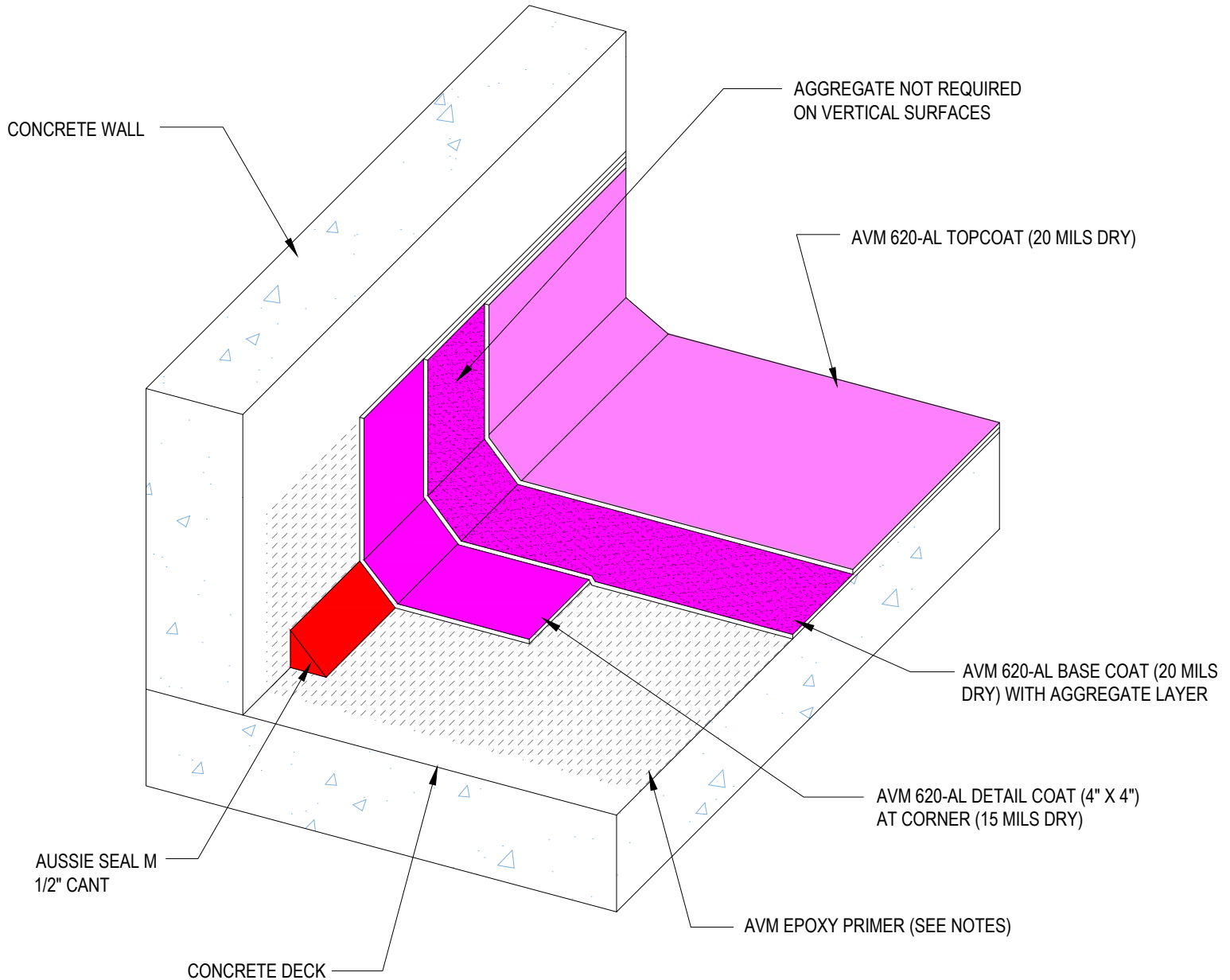
Note: Colors shown are as accurate as possible. Applied color appearance may vary due to surface texture, lighting, size, shape, method of application and adjacent colors. AVM Industries, Inc. reserves the right of reasonable variation. Colors might vary from batch to batch. Custom colors and color matching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

DETAIL #:
0620V-1100
AVM System 620V

Concrete Wall to Slab Joint Typical Assembly (5-Year System)



AVM SYSTEM 620V - Vehicular Deck Coating



Notes:

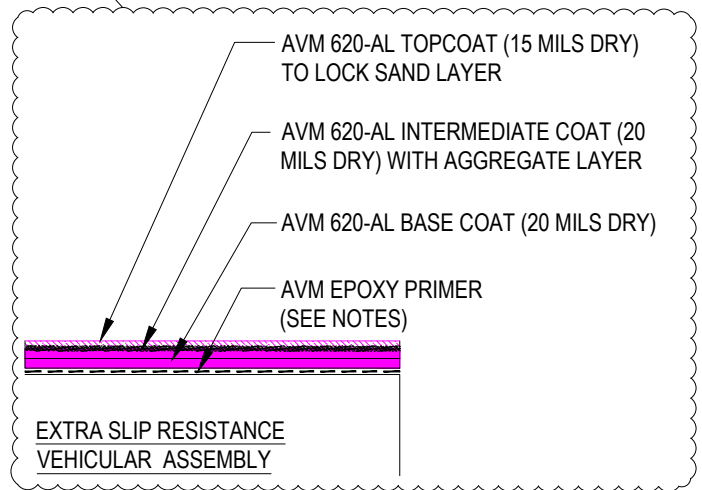
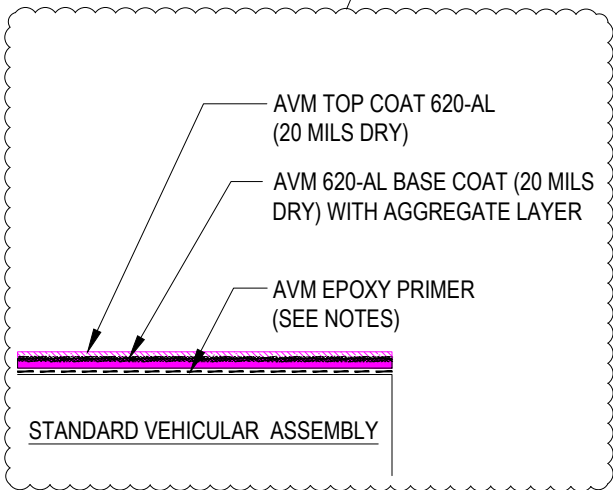
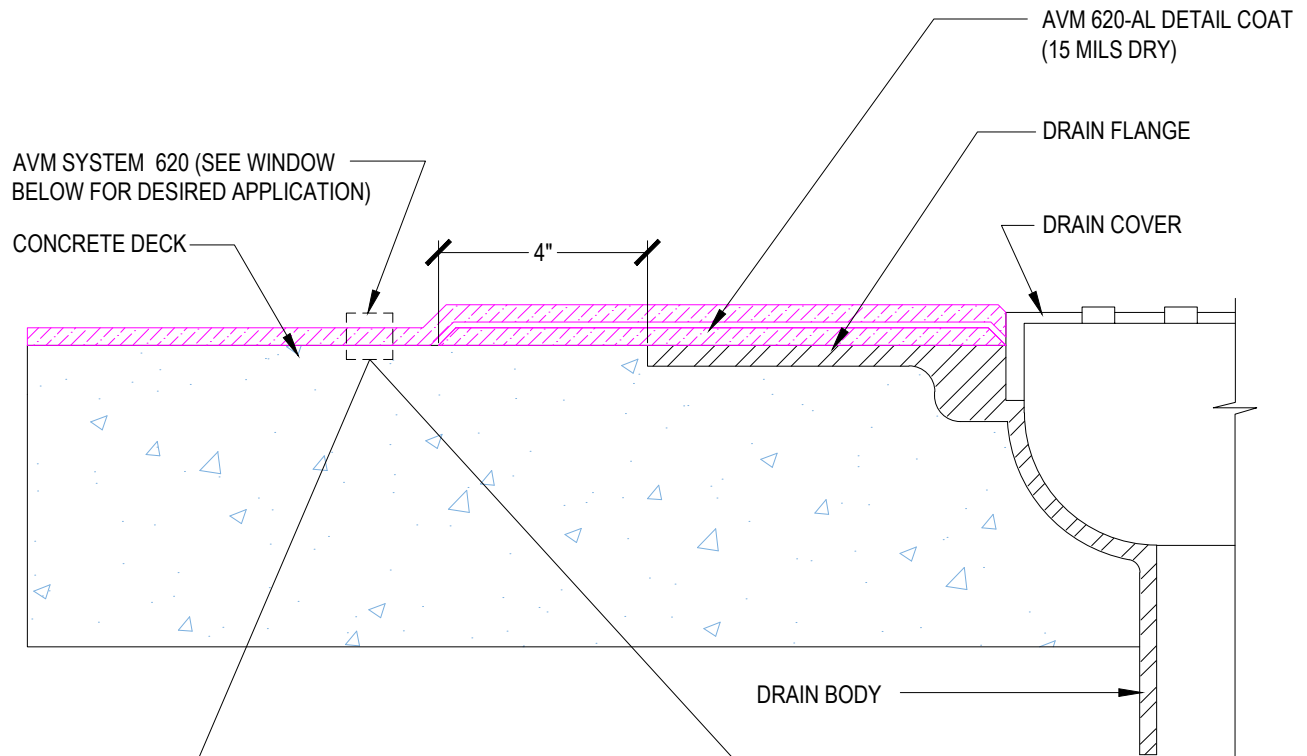
1. Epoxy primer may be required to achieve proper adhesion depending on the substrate

DETAIL #:
0620V-1300
AVM System 620V

Drain Assembly - Concrete Deck 5-Year System



AVM SYSTEM 620V - Vehicular Deck Coating



Notes:

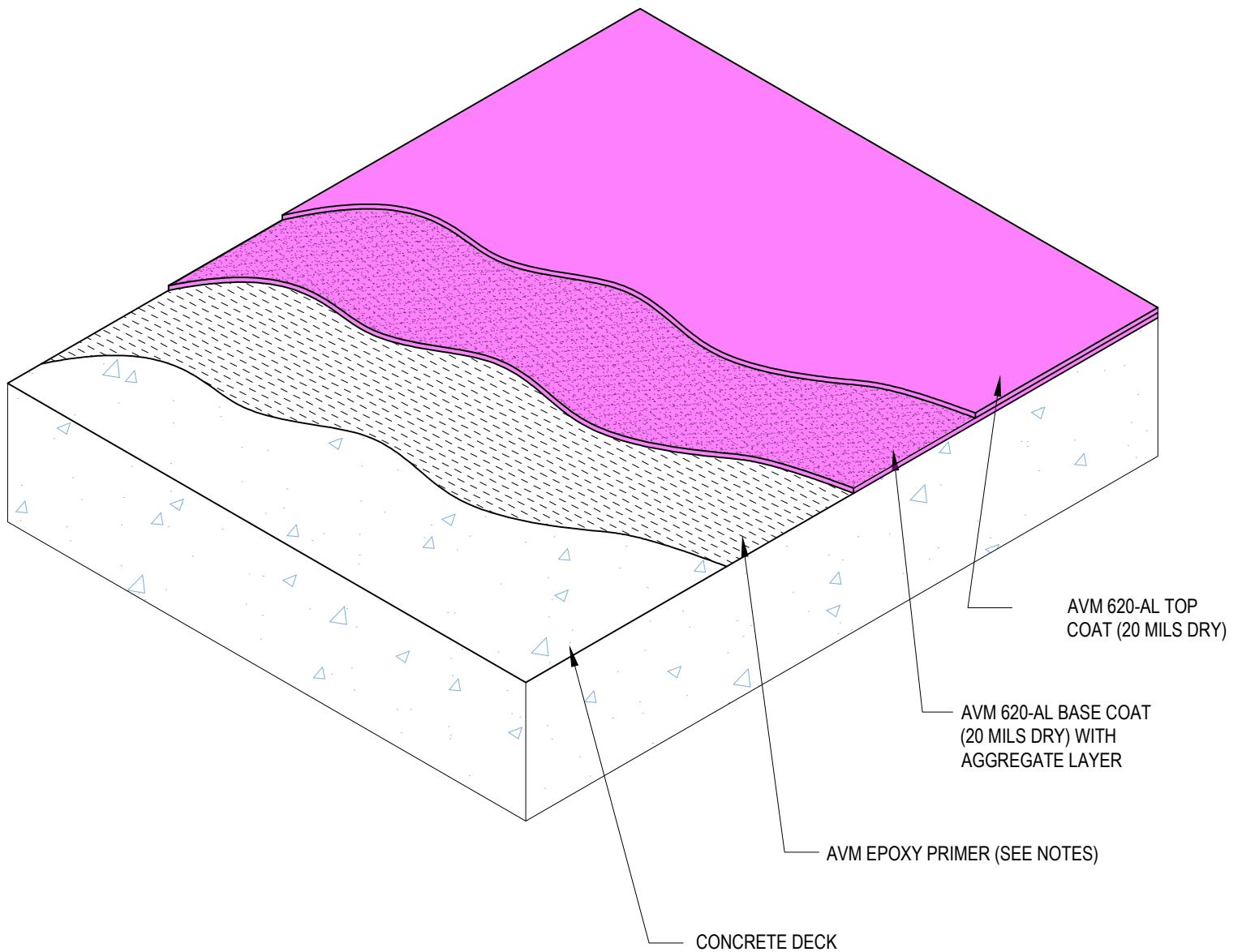
1. Epoxy primer may be required to achieve proper adhesion depending on the substrate

DETAIL #:
0620V-4002
AVM System 620V

Typical Assembly Over Concrete 5-Year System



AVM SYSTEM 620V - Vehicular Deck Coating



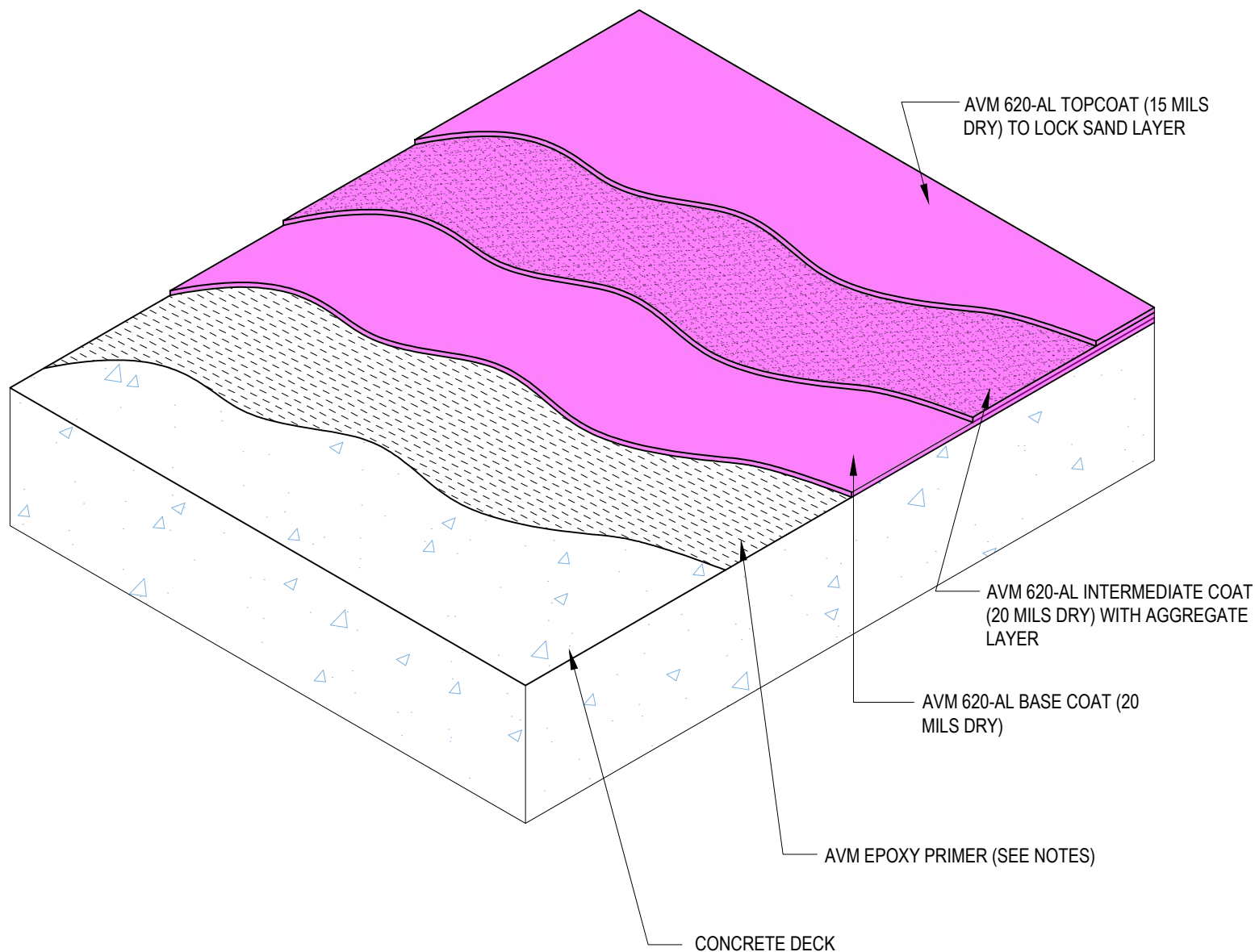
Notes:

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

DETAIL #:
0620V-4004
AVM System 620V

Typical Assembly Over Concrete with Maximum Slip Resistance 5-Year System

AVM SYSTEM 620V - Vehicular Deck Coating



Notes:

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