



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.
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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

- 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.
- Handle and store containers in accordance with printed instructions.
- 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.
- 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.
- 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.

Project Conditions

- 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.
- 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.
- 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.
- Protect adjacent surfaces which could be damaged during the application procedure.
- 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

- Visually inspect all coated surfaces to ensure a full and proper coating application, especially at corners, drainage footings and other hard-to-reach areas.
- All unsatisfactory areas shall be repaired prior to final acceptance.

Protection of Installed Work

- 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)
- 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 1/8" 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.



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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LOCATIONS & CONTACT INFO

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SOLUTIONS WE SUPPLY

GEOSYNTHETICS

Filter Fabrics

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Geogrids

- Road Grids
- Wall Grids
- Slope Stabilization

Specialty Fabrics

Composite Geomembranes

- GCLs, PVC, HDPE, LLDPE, EPDM, Granular Bentonite

SEDIMENT CONTROL

Inlet Protection

- Grated Inlet, Curb Inlet, Area Inlet Protection

Ditch Checks

- Triangle Silt Dike
- GeoRidge

Perimeter Protection

- High and Low-Porosity Silt Fence, Straw Wattles, Silt Socks
- Safety Fence

Flocculants & Water Treatment

- Polymer-Based & Natural Flocculants

Sediment Basin Skimmers

Dewatering Bags

Trackout Control

- FODS
- Rumble Grates

Turbidity Curtains

EROSION CONTROL

Basic Hydraulically Applied Mulches

- Wood
- Paper
- Blends
- Straw

High-Performance Hydraulically

Applied Products

- BFM
- FGM
- Additives & Tackifiers

Temporary Erosion Control Blankets

- Coir & Jute Mat/Nettings
- Short-Term ECBs
- Extended-Term ECBs

Permanent Erosion Control Blankets

- Turf Reinforcement Mats
- HP-TRMs
- Anchor Reinforced Vegetation System

Structural BMPs

- Transition Mats
- Geoweb Cellular Confinement
- Composite Vegetated Armor System
- Flex MSE Vegetated Wall System
- Articulated Concrete Block
- Gabions
- Grout-Filled Geotextile Mats

Vegetation Establishment

- Native Seed & Turf Seed
- Fertilizers
- Organic Soil Additives
- Stratavault Soil Cells

STORMWATER MANAGEMENT

Water Quality

- Inlet Filter Boxes
- Pre-Treatment Chamber
- Nutrient Separating Baffle Boxes
- High-Flow Biofiltration Media
- Hydrodynamic Separators
- Stratavault

Water Quantity

- Modular Underground Storage Systems
- Chamber Detention Systems

Drainage

- HDPE Swale Liner
- Pipe & Fittings
- Drainage Composites
- Strip Drain

Inlet Structures

- PVC
- Drain Basins, In-Line Drains
- Landscape

Permeable Pavers

- Permeable Articulating Concrete Block
- Grass Pavers
- Gravel Pavers
- Concrete Pavers

SPECIALTY

Natural & Synthetic Coir Fiber Logs

Vegetated Reinforced Soil Slopes

Soil Anchors

Root Barrier System

AquaBlok

Muscle Wall

We are full line distributors of construction materials for all project types. Contact us for assistance with a project. From specification and development to installation and completion, we're here to help with all of your site solution needs.

GEOSYNTHETICS | EROSION CONTROL | STORMWATER MANAGEMENT
SEDIMENT CONTROL | REVEGETATION & SOIL AMENDMENTS