



Product Profile

## AVM Industries' Aussie Membrane 520 PRO: Jack of All Trades

### A Waterproofing Solution for Various Applications

#### Technology

The AVM Aussie Membrane 520 PRO is 95% solids, gray liquid polyurethane that dries to a tough, seamless, and flexible waterproof membrane. The Aussie Membrane 520 PRO exhibits excellent adhesion, significant tear strength, excellent elongation and is impermeable to water, all while being a single component cold applied liquid. The most impressive aspect of the 520 PRO is its ability to be used in a plethora of applications: ranging from post applied foundation walls, water detention tanks, retaining walls, basements, horizontal decks, under green roofs, and planter boxes.

#### Application 1: Post Applied Wall

**The Aussie Membrane 520 PRO can be installed using a roller, brush or spray equipment. In addition, the 520 PRO can be installed on concrete after only 3 days.** In some applications, a primer may be necessary, and fabric reinforcement is recommended for transitions and seams in plywood or concrete cold joints. The photo below shows how quickly the 520 can be installed using a Graco pump. Although it may be possible to spray the required amount of dry mils in a single coat, it is always recommended to do so in two or more coats, which will greatly reduce the chances of sagging, bubbling, and pinholes. In addition, the product can and is often installed with rollers. In general, 60 mils can be installed in a single pass, but we generally find it is faster to install two coats at 30 mils.



Figure 1a: Applicator spraying the first coat of Aussie Membrane 520 PRO in the post applied wall application, using Graco pump approved for polyurethane coatings.



Figure 1b: Second and final coat of Aussie Membrane 520 PRO is completed and expected to be fully cured in 24-48 hours.

## Application 2: Pool

Containing low amounts of VOC's and being rated for both chlorine and salt, all while being an easy to apply single component polyurethane, the Aussie 520 PRO is a popular choice when waterproofing pools and podiums. For this project, the applicator chose to roll the 520 PRO onto the horizontal and vertical walls of the pool, through an easy two-coat application. In addition, the 520 allowed the applicator to quickly and efficiently pre-strip the perimeter of the podium without the mobilization costs commonly associated with a hot rubber kettle. For obvious reasons, 520 PRO not only is significantly safer to use than hot rubber but it also saved cost on the installation and greatly sped up the schedule of installation for the general contractor because other trades were able to access the deck while the waterproofing applicator installed the 520.

Following the first coat, a reinforcement fabric was applied, which was followed by the second and final coat of the 520 PRO. Reinforcing fabric is not required but in this application the team felt it provided added value. Following the final coat and full cure time, a flood test was conducted to ensure the membrane is intact and the pool is fully waterproofed.



TOP: Figure 2a: Aussie Membrane 520 PRO being roller applied to the walls of the pool, followed by reinforcement fabric after the first coat.



BOTTOM: Figure 2b: Application of 520 PRO is complete following the second coat.

## Application 3: Planter Boxes

With the low VOC content and excellent recovery properties, the Aussie Membrane 520 PRO is well suited for planter boxes. The owner originally considered using hot rubber for this application but ended up choosing the Aussie Membrane 520 PRO for its track record. Following the simple two coat process, the planter boxes were roller applied with the 520 PRO, fabric reinforcement was only used at the inside corners. Following the full cure of the second coat, a flood test was performed to identify any possible leaks.

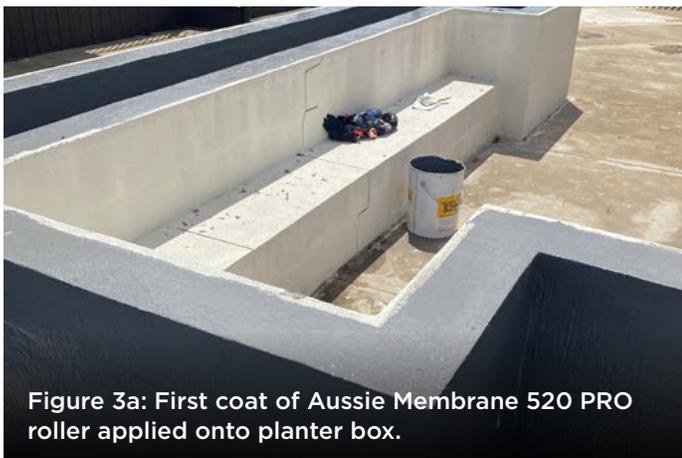


Figure 3a: First coat of Aussie Membrane 520 PRO roller applied onto planter box.

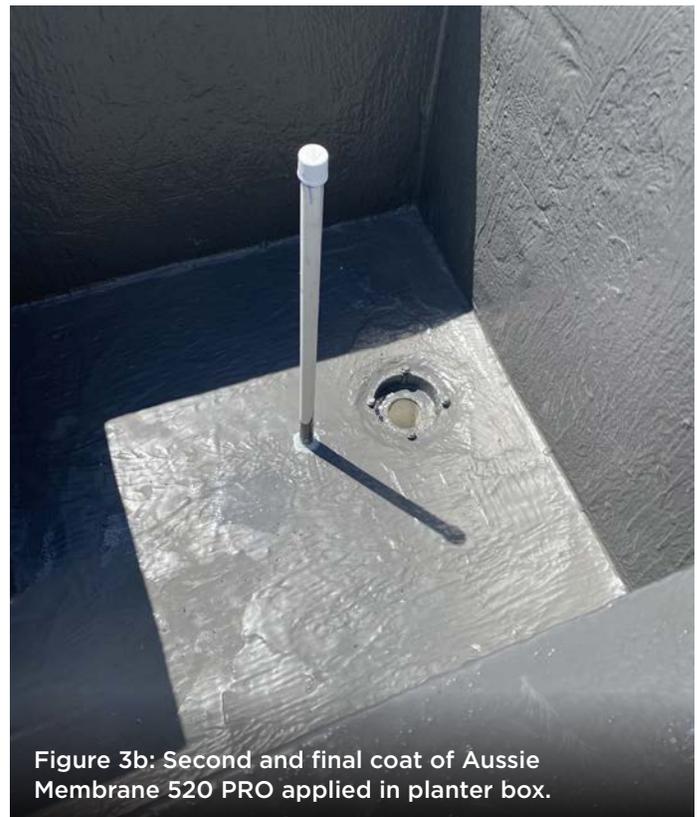


Figure 3b: Second and final coat of Aussie Membrane 520 PRO applied in planter box.

## 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)
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) <sup>1</sup>		≤ 10 hrs.
Curing Time (hours) <sup>2</sup>		≤ 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](http://www.avmindustries.com).

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