



Aussie Gas-Lock 420™

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

Sections 071800 / 071813
Fluid Applied Waterproofing

Product Name

Aussie Gas-Lock 420

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

By

AVM Industries, Inc.
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Product Description

Aussie Gas-Lock 420 is an epoxy two-component, heavy duty, high-adhesion, moisture, methane and voc barrier. This product has been specifically designed to block the intrusion of moisture, methane gas, and volatile organic compounds. 100% reactive solids, no solvents, no plasticizers, no fillers and zero VOC Emissions.

Advantages

- **Moisture/Vapor/VOC Barrier: Min 12 MILS DFT¹ (<3 Pounds MVER)**
- **Methane/Gas Barrier: Min 30 MILS DFT¹**
- Up to 15-year material warranty
- 100% reactive solids
- Zero VOC Emissions and No Odor
- No upper limit for moisture or alkalinity
- Spreads easily, self-leveling
- Over 20 years of performance history
- Fast Cure
- Only product ASTM tested and proven to be a methane barrier

Where to Use

Aussie Gas-Lock 420 is ideal for sealing out harmful methane gases, moisture and harmful VOCs when retrofitting existing structures. Ideal for repurposing warehouses, garages, or formally unoccupied spaces into occupied spaces. **Aussie Gas-Lock 420** installs quickly and cures quickly, allowing the team to maintain schedule and install practically any finished flooring desired.

In addition, the product can be used to seal green concrete and allow for membrane/coating applications sooner than the required 28 days concrete cure time when used in conjunction with other coatings such as our AVM Hot Rubber 570, our Deck Coatings, our Polyurethane 520, our Aussie Membrane 500 and our Under-Tile membranes.

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.

¹ DFT: Dry Film Thickness

Delivery, Storage, and Handling

- Delivery of the **Aussie Gas-Lock 420** materials to the job site must be in their original sealed containers, 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. Do not store materials in direct sunlight or where they may be damaged by water or rain.
- 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.

Preparation of Concrete

The substrate must be absorbent to apply **Aussie Gas-Lock 420**. After substrate preparation, conduct a Water Drop Test on the substrate per ASTM F3191 to determine and document absorbency of the material into the concrete substrate. If the water drop does not penetrate the concrete within a minute of being placed on the surface of the profiled substrate, there may be potential bond breakers that still need to be removed through additional prep.

Note: Shotblasting is the preferred method for surface preparation. If grinding is performed, it must deliver a consistent dust-free profile. Please refer to ICRI Tech Guide No 310.2R-13 for complete preparation details.

Existing Concrete: Remove all existing coatings, sealers, coverings, roofing materials, etc. Using best mechanical means. Prepare concrete to a CSP-4 per ICRI CSP profiles

New Concrete: Prepare concrete to a CSP-3 profile.

When finished shotblasting or grinding remove all fugitive shot, dust and debris from prepared surface.

Concrete requirements before coating

The concrete must comply with ASTM F710, ASTM F3010, ASTM F3191 and ACI 302.R. In addition, the concrete must be absorbent and pass the Water Drop Test per ASTM F3191. The concrete must have a minimum 200 psi tensile (ASTM C1583/C1583M - 20) and 3000 psi compressive strength (ASTM D7234)

Installation Conditions

The area to be coated must be climatized. If the indoor space is not climatized please ensure the next two steps are monitored with appropriate tools such as a digital hygrometer and infrared thermometer.

1. Ambient Temperatures must be within 40°F - 90°F



2. The concrete substrate temperature must be at least 5°F above the ambient dew point to avoid/reduce the risk of condensation. Condensation may cause adhesion failure or "amine blushing" on the product finish.
3. Ambient Temperatures must be steady and/or falling.
4. Do not apply if rain, high relative humidity or extreme temperature changes are expected during mixing, application or cure time.

Installation Instructions

Pour entire contents of Part B (Hardener) into Part A (Resin) and mix for 3 minutes using a 300-400 RPM drill with Jiffy mixer attachment.

Immediately after mixing, pour entire contents of pail onto substrate (pot life is short, 10-20 minutes). Spread the material using a flat or 30 mils notched squeegee to deliver a minimum 30 mils coat. Back-roll the material using a 3/8" nap roller to ensure even coverage. (Use only roller covers that are lint-free and suitable for epoxies). The epoxy coating may also be applied in two thinner coats totaling a minimum 30 mils.

Cure time will take approximately 4 hours between coats. Protect the area from moisture, dirt, dust, and foot traffic during the cure time. A maximum 7 days is allowed between coats. If coating with another system, that system must be compatible and installed within 72 hours of original installation.

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 Kit	2.4 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 by Volume)	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	0.072 perms	ASTM E96-10
Vapor Barrier MVER @ 12 Mils	0.072 Perms	ASTM F3010
Methane Gas Transmission Rate @ 18 mils	103 mL/day*m ² *atm)	ASTM D 1434
Methane Gas Transmission Rate @ 30 mils	Value is below limit of detection	ASTM D 1434
PCE Diffusion Coefficient @ 30 mils	5.89E-14	ASTM E96 Modified Procedure B

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

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

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