LARR 26218
City of Los Angeles
County of Los Angeles

TECH DATA SHEET

Sections 071800 / 071813

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 formulatio**n, 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 T1me (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 Tempenture	40°F-90°F
Application Humidity Dew Point	Slab Temperature + 5°F Above Dewpoint
Concrete Surface Profile (Consult ICRI 310.2R.l3)	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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Quality Waterproofing Products

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