LARR 26218
City of Los Angeles
County of Los Angeles

AVM INDUSTRIES INC

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

Aussie Gas-Lock 420-FC is a a two-component high performance epoxy coating system that can be used as a methane membrane, a moisture vapor transmission control system and may also be used as a fast-curing primer when applying other coatings. Its unique blend of epoxy resins makes it a fast-curing epoxy system ideal for rapid turn around times.

Advantages

- Up to 15-year material warranty
- 24 lbs per 1000 sqft. Upper limit ASTM 1869
- Fast cure 4 hours
- Bonds to damp concrete
- Green concrete after 7 days
- 100% Solids
- Ideal as a primer under all resin-based coatings
- Meets city of Los Angeles & County of Los Angeles methane requirements when installed at 18 mils

Where to Use

Over new & existing concrete slabs. Aussie Gas-Lock 420-FC is ideal for sealing out harmful methane gases, moisture and harmful VOCs when retrofitting existing structures. Ideal for repurposing warehouses, garages, ADUs or formally unoccupied spaces into occupied spaces. Aussie Gas-Lock 420-FC installs quickly and cures quickly, allowing the team to maintain schedule and install practically any finished flooring over it once cured.

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.

Delivery, Storage, and Handling

a. Delivery of the Aussie Gas-Lock 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.

Preparation of Concrete

The substrate must be absorbent to apply Aussie Gas-Lock 420-FC. 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 bust be absorptive 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.
5. Concrete substrate must cure for a minimum of 3 days, be dry to the touch, and have a moisture content of no more than 20% prior to installation

Installation Instructions

Mix Part A for 2 minutes with a drill and mixer. Add the entire contents of Part B into Part A and mix for 2 more minutes. Do not split kits.

Immediately after mixing, pour entire contents of pail onto substrate (pot life is short, 20-30 minutes). Spread the material using a flat notched squeegee. 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 the desired thickness.

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 24 hours is allowed between coats. If coating with another system, that system must be compatible and installed within 12 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-FC Kit	3 Gal Kit	XX Pounds	0 g/L

Technical Data	Results	Test Criteria
Mixing Ratio (A:B by Volume)	2:1	
Tack Free Time	4 hours	
Recoat Time (min/max)	4 hours/12 hours	
Light Foot Traffic	4 hours	
Vehicular Traffic	12 hours	
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
Water Absorption (24 hrs.)	<0.5%	ASTM D-570
Flammability	Self-extinguishing	ASTM D-635
Tensile Strength	4,500-5,200 psi	ASTM D-638
Tensile Elongation	4%-6%	ASTM D-638
Compressive Strength @24 hours	7,500	ASTM D-695
Compressive Strength @7 days	9,800	ASTM D-695
Monolithic Surfacing	Pass	ASTM C-722
Impact Resistance	Pass	ASTM D-2794
Abrasion Resistance (CS-17)	036 mg	ASTM D 4060
Shore D Hardness	80	
Methane Gas Transmission Rate @ 30 mils	10 mL/day*m2*atm	ASTM D 1434
Methane Gas Transmission Rate @ 18 mils	21 mL/day*m2*atm	ASTM D 1434

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

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

Quality Waterproofing Products

AVM INDUSTRIES INC

www.avmindustries.com