LARR # 26138
US Patent #: 10,870,9821

TECH DATA SHEET

Sections - 071000 / 071300 / 071313 / 071326 / 071352

AVM INDUSTRIES INC

AVM Aussie Mate® 580-AL (80 Mil)

Below Grade Bituminous Sheet Waterproofing Membrane and Methane/VOC/Radon Barrier with UV Stable Aluminum Protection Layer

Product Name

AVM Aussie Mate 580-AL

Manufactured by

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

The **AVM Aussie Mate 580-AL** is a UV stable, heavy duty 80 mil below-grade bituminous sheet waterproofing membrane and methane barrier with aluminum facer. **AVM Aussie Mate 580-AL** exhibits excellent adhesion, elongation and recovery properties. Unlike other sheet membranes, Aussie Mate® 580-AL can be exposed to U.V. up to 180 days.

Approvals

Aussie Mate 580-AL (80 Mils) is approved by LARR (LARR #26138) for use as a waterproofing membrane and/or methane barrier in both the City and the County of Los Angeles. This approval is based on tests and analysis in accordance with LADBS Acceptance Criteria L021 Below-Grade Exterior Damp-Proofing and Waterproofing Materials and L137 Methane Barrier Test Criteria.

Where to Use

Below-Grade: Foundation Walls (Concrete & CMU), Retaining Walls, Basements

Decks & Planters: Plaza Decks, Split-Slab Decks, Planter Boxes

Methane/VOC: Methane and/or VOC barrier for foundation walls and under concrete slabs.

Note: Installation requirements vary based on installation type and project requirements. Refer to Aussie Mate details and Installation Instructions for complete installation requirements.

Warranty

AVM Industries will warrant the installed membrane for a period of five (5) years. Extended warranties are available. For complete warranty details, contact AVM Industries or consult with your applicator.

Delivery, Storage, and Handling

a. Delivery of all the **AVM System 580-AL** materials to the job site must be in their original sealed packaging, with manufacturer's name and label intact.
b. Handle and store containers 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. 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.
e. Keep all materials out of the reach of children.
f. If irritation occurs during use, liberally flush affected areas with water. If irritation continues, see a physician immediately.

Project Conditions

1. Concrete/block walls: All surfaces to which the **Aussie Mate 580-AL** is applied to must be sound and stable, with an even finish and free from dust, loose debris, grease, curing agents, etc. If necessary, apply a parge coat using AVM Crete 6200.
2. The **Aussie Mate 580-AL** may be applied to damp but not waterlogged surfaces (Green Concrete) with AVM Primer 580-SB after 3 days and with Aussie Membrane 500 after 7 days.
3. Under slabs over compacted earth or mud slabs: All surfaces to which the **Aussie Mate 580-AL** is applied to must be sound and stable, with an even finish and free from sharp edges, loose debris, oil, grease, etc.
4. Typical installation of **Aussie Mate 580-AL** can be performed when ambient and substrate temperatures are 40°F and above. Installations below 40°F are best addressed with Aussie Mate 580 AL cold weather installation instructions. Installations between 25°F - 40°F may be performed if the Aussie mate 580 AL is stored in a heated area until use and the laps are treated accordingly to the cold weather installation procedures. Consult your local Technical Representative for further information. Preparation: Do not apply Aussie mate 580 AL to frozen or wet substrates.
5. Do not apply materials if precipitation is imminent.
6. 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.
7. Protect adjacent surfaces which could be damaged during the application procedure.
8. This system must not be used to cover Expansion Joints.

System Application

Review the **AVM System 580-AL** Installation Instructions and details prior to installation. On methane jobs, follow methane engineer's details and installation instructions. In some jurisdictions, continuous inspection by a registered deputy inspector certified by AVM Industries and registered in accordance with the requirements specified in LAMC Section 91.1704 for special inspections is required.

Consult with AVM for details.

Quality Control

a. Visually inspect all surfaces to ensure full and proper adhesion where applicable, especially at corners, seams, drains, footings and other hard-to-reach areas. On methane jobs, a smoke test or other verification is required.
b. All unsatisfactory areas shall be repaired prior to final acceptance.

Protection of Installed Work

Always protect the waterproofing from possible damage. Use AVM Drainage Boards or AVM Approved Protective Panels.

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**

US Patent No. 10,870,982

System Specifications

Test method: LARR L021

Descriptions	Standard	Requirement	Test Results	Pass/Fail
Water Vapor Permeance	ASTM E 96 water method	≤ 1	0.01 Perms	Pass
Resistance to Decay	ASTM 154 / ASTM E 96 water method	Report Results	0.01 Perms	Pass
Samples Tested:		≤ 10	% Change/Perms: 0%	Pass
Field Area, Factory Lap, Non-Factory Lap		≤ 10	% Weight Loss: 0%	Pass
Tension and Elongation (MD) % Elongation	ASTM D 2523 (Tested Bitumen w/Aluminum)	≥ 25	68 %	Pass
Tension and Elongation (CMD) % Elongation	ASTM D 2523 (Tested Bitumen w/Aluminum)	≥ 25	65 %	Pass
Tension and Elongation (Bitumen only)	ASTM D 2523	≥ 300%	Report Results	Pass
Adhesion to Concrete/Masonry (lbf/in.)	ASTM D 903	≥ 5	Pass	Pass
Puncture Resistance (lbf)	ASTM E 154	≥ 80	125 lbf	Pass
Hydrostatic Pressure resistance max (PSI)	ASTM D 5385	Report Results	100	Pass
Hydrostatic Pressure resistance max (ft of water)	ASTM D 5385	Report Results	231 ft of water	Pass
Hydrostatic Pressure Resistance (ft of water)	ASTM 751	Report Results	171 ft of water	Pass
Low Temperature Flexibility (MD) -20F°	ASTM D 5147	Pass or Fail	Pass	Pass
Low Temperature Flexibility (CMD) -20°	ASTM D 5147	Pass or Fail	Pass	Pass
Tensile Strength	ASTM D 412	Report Results	540 PSI	Pass
Bonded Seam Strength	ASTM D 882	Report Results	46 lbf	Pass
Methane Gas Transmission Rate (mL/day*m²*atm)	ASTM D4068 Anex A/D412	≤ 40	0.5	Pass
Microorganism Resistance (Soil Burial)	ASTM D4068 Anex A/D412	Pass or Fail	Pass	Pass
Oil Resistance Test	ASTM D543 / D412	Pass or Fail	Pass	Pass
Heat Aging	ASTM D 412	Pass or Fail	Pass	Pass
TCE Diffusion Coefficient	ASTM 96/96M-16	Report Results	4.58e-15m²/s	Pass
Benzene Diffusion Coefficient	ASTM 96/96M-16	Report Results	6.3e-15m²/s	Pass
Water Absorption (24h)	ASTM D 570-98	Report Results	.1% by wt.	Pass
Low Temperature Flexibility	ASTM D 1970/D 1970M-20	Pass at -20 deg F	Pass	Pass
Low Temperature Crack Bridging	ASTM C 1305/C 1305M-16	Pass or Fail	Pass	Pass
VOC/Radon Test Results	**Standard**	**Requirement**	**Test Results**	**Pass/Fail**
PCE Diffusion Coefficient	ASTM 96/96M-16	Report Results	2.26e-15m²/s	Pass
Radon Diffusion Coefficient D (m²/s)	ISO/TS 11665-13, Method A	Report Results	$<2{,}5.10^{-13}$	Barrier
Radon (Seam Overlap) Diffusion Coefficient D (m²/s)	ISO/TS 11665-13, Method A	Report Results	$3{,}4.10^{-13}$	Barrier

*AVM considers this product to be a VOC barrier based on the above test results.
Please contact AVM Technical Services if you have further questions regarding specific VOCs

Item/Component	Packaging	Approx Shipping Weights	Qty per Pallet	VOC
Aussie Mate 580-AL 80-mil	3.28'x65.6' Roll (215 sq.ft.)	123.2 Pounds (56 Kg) / Roll	16 Rolls/Pallet	N/A

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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