



AVM Aussie Mate® 580-AL (60 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.
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Product Description

The **AVM Aussie Mate 580-AL** is a UV stable, heavy duty 60 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 (60 Mils) is approved by LARR (LARR #26138) for use as both a waterproofing membrane and/or methane barrier. This approval is based on tests and analysis in accordance with LADBS Acceptance Criteria LO21 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

- 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.
- Handle and store containers 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.
- 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.
- 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.

Project Conditions

- 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.
- 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.
- 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.
- 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.

- Do not apply materials if precipitation is imminent.
- 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.
- Protect adjacent surfaces which could be damaged during the application procedure.
- 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

- 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.
- 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**

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 | | Report Results | 0.01 Perms | Pass |
| Samples Tested: | ASTM 154 / ASTM E 96 water method | ≤ 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*m ² *atm) | ASTM D4068 | ≤ 40 | 0.5 | Pass |
| Methane Gas Transmission Rate (ml/day*m ² *atm) | ASTM 1434 | ≤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-15m ² /s | Pass |
| Benzene Diffusion Coefficient | ASTM 96/96M-16 | Report Results | 6.3e-15m ² /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 |
| Environmental Stress-Cracking | ASTM 1693 | 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-15m ² /s | Pass |
| Radon Diffusion Coefficient D (m ² /s) | ISO/TS 11665-13, Method A | Report Results | <2.5.10 ⁻¹³ | Barrier |
| Radon (Seam Overlap) Diffusion Coefficient D (m ² /s) | ISO/TS 11665-13, Method A | Report Results | 6,7.10 ⁻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 60-mil | 3.28'x65.6' Roll (215 sq.ft.) | 85.0 Pounds (38.7 Kg) / Roll | 20 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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