



# TECH DATA SHEET

Sections - 071000 / 071300 / 071353 / 071354

## Aussie Skin® 560G

### Heavy Duty HDPE Below Grade Sheet Waterproofing Membrane and Methane/VOC/Radon Barrier

Methane Approved Shot-Crete Approved

Section 071000 / 071300 / 071353 / 071354  
Sheet Applied Waterproofing

#### Product Name

Aussie Skin® 560G

#### AVM System No.

AVM System 560G

#### By

AVM Industries, Inc.  
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#### Product Description

The **AVM Aussie Skin 560G** is an Extra Heavy Duty Pre-Applied 2.0 mm thick Waterproofing, Methane and Shot Crete Approved, Easy to Install, Puncture Resistant HDPE Sheet Membrane with advanced weather resistant dual factory laps, two release liners, a low reflectivity exposed surface, two non-factory lap options and additional technologies creating excellent adhesion between the membrane and wet Concrete or Shot-Crete. Once the Concrete or Shot-Crete is cured, the membrane will become fully bonded to the concrete surfaces eliminating any potential migration of water between itself and the concrete surfaces to which it is bonded.

**AVM Aussie Skin 560G** has a *Los Angeles Research Report (LARR) Approval as a waterproofing membrane, as a methane barrier and is approved for Shot-Crete applications when installed on lagging over plywood, drain board or foam.*

#### Where to Use

Below-grade horizontal and vertical surfaces. Applications include underslab and property line walls, including soldier pile and lagging, metal sheet piling, shotcrete soil retention, and tunnels.

**AVM Aussie Skin 560G** may be applied either horizontally to smoothly prepared concrete substrates and/or compacted earth or crushed stone substrates. It may also be applied vertically to permanent formwork such as lagging. Concrete or Shot Crete is then cast directly against the adhesive side of the membrane.

Note: **AVM Aussie Skin 560G** is not suited to waterproof roofs or other internal wet areas.

#### Application Method:

Pre-Applied, loosely laid.

#### Warranty

AVM Industries provides a standard five (5) year warranty. Ten (10) year warranties are also available. For complete warranty details, contact AVM Industries or consult with your applicator. Shot-Crete to conform to ACI 506 Standards.

**PATENT PENDING:** Some features of our product or assembly are protected under patent laws by one or more pending US patent(s).



#### Delivery, Storage, and Handling

- Delivery of all the **AVM Aussie Skin 560G** materials to the job site must be in their original sealed containers, with manufacturer's name and label intact.
- Handle and store containers in accordance with printed instructions. Shelf Life: One year from date of manufacture.
- Long term storage (more than a week): Store indoors at temperatures between 50°F and 90°F. On job sites, if product will be exposed to the weather for more than a week, best to cover with a tarp or other protection.
- Failure to comply with the recommended storage conditions may affect product performance and/or void the warranty
- 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

- All surfaces to which the Aussie Skin 560G is applied must be sound and stable, with an even finish and free from sharp protruding items, dust, loose debris, grease, curing agents, or anything else that might damage or prevent the proper installation of the membrane.
- The Aussie Skin may be applied at temperatures as low as 20°F and as high as 110°F. For applications at temperatures between 20°F to 40°F, follow the cold weather installation procedures.
- For best results, Aussie Skin should be installed in dry conditions. When installing in damp or wet conditions, additional steps are required. See Aussie Skin Installation Instructions for more info. (Note: Aussie Skin can be damp or wet when concrete is poured, as long as there is no ponding water on its surface.)
- Warn personnel against hazards or 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.

- In areas where formwork is to be removed (slab edges, footings, top of wall) for tie-in to post-applied waterproofing, the formwork shall remain in place for a minimum 72 hours after placement of concrete. Please contact AVM if form removal is scheduled sooner as this could affect the Aussie Skin's bond to the concrete.

#### System Application

Read the **AVM Aussie Skin 560G** Training Manual/Installation Instructions Prior to Installation. Application instructions vary based on application surfaces, job conditions, temperatures, etc. When installed as a methane barrier, continuous inspection by a registered deputy inspector certified by AVM Industries and registered in accordance with the requirements specified in Section 91.1704 of the Los Angeles Municipal Code for special inspections is required.

#### Quality Control

- Visually inspect all surfaces to ensure a full and proper application, especially at seams, corners, drainage footings, penetrations and other hard-to-reach areas.
- All unsatisfactory areas shall be repaired prior to final acceptance.

#### Protection of Installed Work

- The membrane shall be protected until concrete is properly poured over it.
- Do not leave the membrane exposed to U.V. for more than 60 days.
- Always protect the waterproofing from possible damage. If membrane becomes damaged, contact waterproofing installer or AVM before proceeding with pouring concrete.
- Once the Aussie Skin is installed (The seams have been bonded together), the Aussie Skin (including the seams) may be immediately exposed to both, rain or water.

#### 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](http://www.avmindustries.com)

#### System Specifications

See next page.

The following coverages are based on controlled tests. Actual coverages may vary.

| Item/Component                          | Packaging                   | Approximate Shipping Weights | Qty per Pallet  | VOC |
|---|-----------------------------|------------------------------|-----------------|-----|
| Aussie Skin 560G Membrane 2M (100 Mils) | 6.56'x65.6' Roll (430 sqft) | 211 lbs (96 kg) / Roll       | 18 Rolls/Pallet | N/A |
| Aussie Skin Detail Strip 560G           | 13.1"x65.6' Roll            | 30.8 lbs (14 kg) / Roll      |                 | N/A |
| Aussie Skin Double Sided Tape 4"        | 4"x33' Roll                 | 2.2 lbs / Roll               |                 | N/A |
| Aussie Skin Sanded Tape 4"              | 3.9"x65.6' Roll             | 6 lbs / Roll                 |                 | N/A |

| L021 Waterproofing Test Results               | Test Results  | Test Requirements                         | Test Method                      |
|---|---|---|----------------------------------|
| Puncture Resistance                           | 239 Lbf   | Min 40 Lbs                                | ASTM E154                        |
| Hydrostatic Pressure Resistance               | 192 PSI   | As Tested                                 | ASTM D751                        |
| Lateral Water Migration Resistance            | 231 feet (71 M) of hydrostatic head pressure                          | Pass                                      | ASTM D5385 Modified <sup>1</sup> |
| Resistance to Hydrostatic Head                | 231 feet (71 M) of hydrostatic head pressure                          | Pass                                      | ASTM D5385                       |
| Adhesion to Concrete and Masonry              | 10 Pounds   | Min 5 Pounds                              | ASTM D903                        |
| Tension & Elongation: Machine Direction       | 1061 %  | Min 250%                                  | ASTM D412                        |
| Tension & Elongation: Cross Machine Direction | 1050 %  | Min 250%                                  | ASTM D412                        |
| Accelerated Aging                             | No considerable reduction in Tension and Elongation of Aged Specimens | Pass. No considerable reduction in either | ASTM G23 & G153                  |
| Resistance to Decay (Weight Loss)             | 0.8%  | Max 10%                                   | ASTM E154                        |
| Resistance to Decay (Permeance Loss)          | 0%  | Max 10%                                   | ASTM E154                        |
| Water Vapor Transmission                      | 0.016 Perms   | Max 0.1 Perms                             | ASTM E96                         |
| Water Vapor Transmission after Decay          | 0.016 Perms   | Max 0.1 Perms                             | ASTM E96                         |
| Low temperature flexibility                   | Unaffected at -29°C   | Not Listed                                | ASTM D1970                       |
| Lap Peel Adhesion                             | 8 (lbf/in)  | Not Listed                                | ASTM D1876                       |
| Bonded Seam Strength 6" Factory Lap           | 99 lbf  | Not Listed                                | ASTM D 882                       |
| Water Absorption                              | 0.059%  | As Tested                                 | ASTM D570                        |

1. Lateral water migration resistance is tested by casting concrete and shot-crete against membrane with a hole and subjecting the membrane to hydrostatic head pressure with water. The test measures the resistance of lateral water migration between the concrete and the membrane. Tests were performed by an independent certified lab. (This test is in addition to the L021 testing requirements)

| GAS/VOC/Radon Test Results                                       | Test Results          | Test Requirements | Test Method               |
|--|-----------------------|-------------------|---------------------------|
| Methane Gas Transmission Rate (mL/day*m <sup>2</sup> *atm)       | 26                    | ≤ 40              | ASTM D4068 Anex A/D412    |
| TCE Diffusion Coefficient  | 1.51E <sup>-12</sup>  | Report Results    | ASTM 96/96M-16            |
| Benzene Diffusion Coefficient                                    | 1.45E <sup>-12</sup>  | Report Results    | ASTM 96/96M-16            |
| PCE Diffusion Coefficient  | 6.62E <sup>-13</sup>  | Report Results    | ASTM 96/96M-16            |
| Radon Diffusion Coefficient D (m <sup>2</sup> /s)                | 2.2.10 <sup>-12</sup> | Report Results    | ISO/TS 11665-13, Method A |
| Radon (Seam Overlap) Diffusion Coefficient D (m <sup>2</sup> /s) | 1.6.10 <sup>-12</sup> | Report Results    | ISO/TS 11665-13, Method A |

| Shot-Crete Test Results  | Test Method       | Results | Requirements                            |
|--|-------------------|---------|---|
| <b>Installation over Plywood or directly on the Lagging</b>  |                   |         |   |
| Waterproof Integrity of Side (factory) Lap, overlap installed over 2" plywood joint with nails in laps   | ASTM D 5385       | Pass    | No water leakage detected up to 100 PSI |
| Waterproof Integrity of End (non-factory) Lap, overlap installed over 2" plywood joint   | ASTM D 5385       | Pass    |   |
| Waterproof Integrity of Side (factory) Lap, overlap installed over 2" plywood joint without nails in laps  | ASTM D 5385       | Pass    |   |
| Puncture Integrity at Screw Protrusion, Membrane installed over 1/4" protruding #8 bugle head wood screw   | Visual Inspection | Pass    | No puncture detected                    |
| <b>Installation over Lagging 0.5" EPS Insulation Board (Foam)</b>  |                   |         |   |
| Waterproof Integrity of Side (factory) Lap, overlap installed over EPS Foam Board located over 2" lagging joint with nails in laps               | ASTM D 5385       | Pass    | No water leakage detected up to 100 PSI |
| Waterproof Integrity of End (non-factory) Lap, overlap installed over EPS Foam Board located over 2" lagging joint                               | ASTM D 5385       | Pass    |   |
| Waterproof Integrity of Side (non-factory) Lap, overlap installed over EPS Foam Board located over 2" lagging joint; Joint without nails in laps | ASTM D 5385       | Pass    |   |
| Puncture Integrity at Nail Protrusion Membrane installed over 1/4" protruding nail with 7/32" dia. head  | Visual Inspection | Pass    | No puncture detected                    |
| <b>Installation over Drain Board</b>   |                   |         |   |
| Waterproof Integrity of Side (factory) Lap, overlap installed over Drain Board located over 2" lagging joint with nails in laps                  | ASTM D 5385       | Pass    | No water leakage detected up to 100 PSI |
| Waterproof Integrity of End (non-factory) Lap, overlap installed over Drain Board located over 2" lagging joint                                  | ASTM D 5385       | Pass    |   |
| Waterproof Integrity of Side (non-factory) Lap, overlap installed over Drain Board located over 2" lagging joint; Joint without nails in laps    | ASTM D 5385       | Pass    |   |
| Puncture Integrity at Nail Protrusion Membrane installed over 1/4" protruding nail with 7/32" dia. head  | Visual Inspection | Pass    | No puncture detected                    |

Note: "Test Requirements" as listed in **Los Angeles City Test Protocol L021, Acceptance Criteria for Below-Grade Exterior Damp-Proofing and Waterproofing Materials dated May 2004 And Los Angeles City Shot-Crete Test Protocol dated April 26, 2016.**

\*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 VOC's

For a complete list of details in CAD or PDF, please visit our website at [www.avmindustries.com](http://www.avmindustries.com).

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