



AVM Aussie Clay PL

Aussie Clay PL is a heavy-duty Bentonite Composite Sheet Waterproofing Membrane with a Poly Liner Backing.

Sections - 071000/071700/071713/071716

Product Name

AVM AUSSIE CLAY PL
(Internal reference: AVM System 590 PL)

Manufactured by

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

The AVM Aussie Clay PL is a heavy-duty high strength Bentonite Composite Sheet Waterproofing Membrane consisting of needle punched woven and non-woven geotextile fabrics encapsulating a thick layer (1 lb/sq.ft. / 4.8 kg/M2) of active sodium bentonite between them. An HDPE liner is fused to the non-woven side of the membrane to increase its overall waterproofing performance and vapor permeance

Aussie Clay PL works by forming a low permeability membrane once it comes in contact with water. Once wetted, the sodium bentonite swells (up to 15 times its size when unconfined) to form a strong continuous membrane. As Aussie Clay PL swells, it's also designed to self-seal and expand towards the concrete to fill-in small cracks and voids, as well as reduce the potential of lateral water migration. Aussie Clay PL forms a mechanical bond to the concrete in a pre-applied waterproofing application.

The hydration of Aussie Clay can be restricted if ground water is contaminated with either salt, Chemicals or other foreign substances. (As determined by the site water analysis). If ground water contains strong acids, alkalis, or other contaminants, or is of a conductivity of 2,500 μ mhos/cm or greater, Aussie Clay SW or Aussie Clay SW-PL must be used. Please contact your local rep for details.

Where to Use

Retaining Walls, Basements, Under-Slabs, Mud-Slabs

AVM Aussie Clay PL is designed for below-grade vertical and horizontal structural foundation surfaces. Aussie Clay PL may be applied vertically to permanent formwork such as lagging or other property line construction or to existing back-filled structural walls. Aussie Clay PL may also be applied horizontally either to smoothly prepared concrete substrates and/or compacted earth or crushed stone substrates. Aussie Clay PL may also be used in conjunction with the AVM Aussie Skin membrane as part of a "Dual Membrane" Assembly.



Application Method

Pre-Applied, loosely laid.

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. Shot-Crete to conform to ACI 506 Standards.

Delivery, Storage, and Handling

- Delivery of all Aussie Clay PL system components 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 in a dry cool space at temperatures between 50°F and 90°F. (Aussie Clay Sealant must be stored at temperatures between 50°F and 75°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

- All surfaces to which the Aussie Clay PL is applied must be dry, 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.
- Aussie Clay PL may be applied at temperatures as low as -20°F and as high as 110°F.
- Do NOT install the Aussie Clay PL if raining or precipitation is imminent.

- 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.

System Application

Read the Aussie Clay Training Manual/ Installation Instructions Prior to Installation. Application instructions vary based on application surfaces, job conditions and other factors.

Quality Control

- Visually inspect all coated 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 backfilled or concrete is properly poured over it.
- Refer to Aussie Clay Training Manual/ Installation Instructions for complete protection requirements.

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

See next page.

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

Technical Data

| Property | Test Method | Results | Unit |
|-------------------------------|-------------|-----------------------|-------------------------------|
| Swell Index | ASTM D5890 | ≥24 | ml/2g |
| Fluid Loss | ASTM D5891 | ≤18 | ml/2g |
| Bentonite Mass Per Unit Area | ASTM D5993 | 1.0 (4.8) | lb/sqft (kg/sqm) |
| Hydrostatic Resistance | ASTM D5385M | 231 (70) | ft (m) |
| Permeability | ASTM D5084 | 1 x 10 ⁻¹¹ | m/s max |
| Tensile Strength | ASTM D6768 | 8.0/8.0 | kN/m min |
| Puncture Resistance | ASTM D6241 | 337 lbs (1.5) | lbs (kN) |
| Peel Adhesion to Concrete | ASTM D903M | 15 (2.6) | lbs/in (kN/m) |
| Low Temperature Flexibility | ASTM D1970 | Unaffected | -25°F (-32°C) |
| Water Vapor Transmission Rate | ASTM E96 | 0.03 | Grains per hr/ft ² |

| Item/Component | Packaging | Approximate Shipping Weights | Qty/Pallet | Weight/Pallet | Qty/Truck | VOC |
|----------------|--------------------------------|------------------------------|-----------------|--------------------|--------------|-----|
| AUSSIE CLAY PL | 3.77'x16.4' Roll (61.9 sq.ft.) | 77.8 lbs. (35.3 kg) / Roll | 35 Rolls/Pallet | 2765 Lbs (1254 kg) | 15 Pallets * | N/A |

*No. of pallets per truck varies if shipped to or in USA or to or in Canada and/or if shipped in a shipping container or standard truck. Qty/Truck listed above shows maximum pallets per 40 GP shipping container shipped in or to the USA. Call AVM for details.

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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