TECH DATA SHEET

Sections- 07260 / 03300

AVM INDUSTRIES INC

GPL-15
Green Polyolifin Liner, 15 Mils Thick

Heavy Duty, Class A Vapor Retarder, Root Barrier and Membrane Liner

Product Name

GPL-15

Manufactured by

AVM Industries, Inc.
8245 Remmet Ave, Canoga Park, CA 91304
Tel: 818.888.0050 Fax: 818.888.0050
www.avmindustries.com

Product Description

GPL-15 is a 15 mils thick, heavy duty, high performance green polyolefin vapor retarder, root barrier and membrane liner.

Where to Use

GPL-15 is specifically engineered to function as a root barrier for AVM's waterproofing systems, including their assemblies for vegetative roofs. GPL 15 is suited for use in extensive green roof systems featuring herbaceous plants exclusively (excluding woody plant species), turf applications without woody vegetation, and planters containing only herbaceous plants. GPL 15 is installed loose-laid over the designated substrate & overlapped by 5' or 2.5', with the overlapping edges secured using GPL 15 tapes. GPL 15 can also be used to prevent moisture migrating through concrete slabs as well as radon, methane, sulfates and many other soil contaminants.

Application Method:

Over tamped earth, sand or aggregate base by unrolling and completely covering area to receive building slab or specified area. Overlap all seams a minimum of 6".

Warranty

We warrant and guarantee our specifications as published. Published test results are based upon accepted industry practice as well as the test methods called for and listed on our test documents. We believe, to the best of our knowledge, that our published results are accurate and reliable and that they represent our vapor retarder membrane. AVM cannot control site conditions and improper installation practices. Therefore, no warranty, expressed or implied, is given, including those of merchantability, fitness for a particular purpose or any other matter with respect to the product.

Delivery, Storage, and Handling

a. Delivery of all the AVM GPL-15 materials to the job site must be in their original sealed packaging, with manufacturer's name and label intact.

b. Handle and store materials in accordance with printed instructions. Shelf Life: Two years from date of manufacture.

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.

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. All surfaces to which the GPL-15 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.
2. Do not apply materials at temperatures below 50°F and falling or if precipitation is imminent. Do not apply materials in direct sunlight at temperatures above 90°F and rising.
3. 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.
4. Protect adjacent surfaces which could be damaged during the application procedure.
5. This system must not be used to cover Expansion Joints.

System Application

Specific project details and recommendations be provided upon request to AVM Technical Services Team.

Installation

On floors, the GPL-15 liner shall be installed over tamped earth, sand or aggregate base by unrolling and completely covering area to receive building slab or specified area. On walls, securely fasten to lagging or other support structures. Overlap all seams a minimum of 6" and seal with GPL Seam Tape or heat weld. All penetrations must be sealed with Aussie Membrane or Aussie Sealant per manufacturer's recommendations. When used as a root inhibitor, install the GPL-15 over the waterproofing membrane and under the drainage media. (Some plants have very aggressive roots. Consult with your landscape professional to ensure the GPL-15 will provide sufficient protection).

Quality Control

a. Visually inspect all surfaces to ensure a full and proper application, especially at seams, corners, drainage footings, penetrations and other hard-to-reach areas.

b. All unsatisfactory areas shall be repaired prior to final acceptance.

Protection of Installed Work

a. The liner shall be protected until concrete is properly poured over it or a membrane is installed on it.

b. Do not leave the liner exposed for more than 14 days.

c. Always protect the liner from possible damage. If liner becomes damaged, contact the waterproofing installer or AVM before proceeding with pouring concrete or applying the membrane.

Availability and Cost

Contact AVM Industries or your approved applicator or distributor 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).

Item/Component	Packaging	Approx. Shipping Weights	Qty per Pallet	VOC
GPL-15 Liner	14'x140' (1960 sq.ft.)	141 lbs (66 KG) / Roll	20 Rolls/Pallet	N/A

No.	Item	Value	Test Method
1	Classification	ASTM E 1745	Exceed Class A, B and C
2	Water Vapor Permeance	ASTM E 1745	0.007 perms (US)
3	Permeance After Conditioning	ASTM E154 – After Wetting, Drying ASTM E154 – After Heat Conditioning ASTM E154 – After Low Temperature Conditioning ASTM E154 – After Soil Organism Exposure	0.01 perms (US) 0.01 perms (US) 0.01 perms (US) 0.01 perms (US)
4	Tensile Strength	ASTM D 1745	82.1 (lbf / in)
5	Puncture Resistance	ASTM D1709	3350 (grams)
6	Methane Transmission Rate	ASTM D1434	135.8 ($cm^3/[m^2$ Atm day])
7	Radon Diffusion Coefficient	ISO / TS 11665-13 (Method A)	6.9 x 10^{-12} m^2/S

Applicable Standards	
ASTM	American Society for Testing & Materials
ASTM-E 1745	Standard Specification for Water Vapor Retarders used in Contact with Soil or Granular Fill Under Concrete Slabs.
ASTM-E 154	Standard Test Methods for Water Vapor Retarders used in Contact with Earth Under Concrete Slabs, on Walls, or as a Ground cover.
ASTM-D 1709	Standard Test Methods for Impact Resistance of Plastic Films by the Free Falling Dart Method.
ASTM-E 96	Standard Test Method for Water Vapor Transmission of Materials.
ASTM-D 882	Standard Test Method for Tensile Properties of Thin Plastic Sheeting.
ASTM E 1643	Standard Practice for installation of Water Vapor Retarders used in Contact with Earth or Granular Fill Under Concrete Slabs.

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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