

Technical Information Sheet

PondGard™ EPDM Membrane

| Packaging | Part Number |
|--|-------------|
| 1.0 mm from 3.05 m to 15.25 m x 30.5/61.0 m per roll | W56PBXXXXX |

Note: membranes are folded or non-folded and available in various panel sizes. Please contact your Elevate Representative for more details.

Description

The Elevate™ PondGard EPDM membrane is a 100% cured lining membrane made of a synthetic rubber Ethylene-Propylene-Diene Terpolymer. It is available in a variety of panel sizes. Depending on the dimensions of the liner, the waterproofing surface may be seamless (up to 930 m²). In other situations, seams can be made using a self-adhesive tape.

Preparation

The substrate needs to be compacted, clean, smooth, dry and free of sharp edges, stones, small cavities, loose or foreign materials, vegetation, roots, oil, grease and other materials that may damage the membrane. Organic and compressive grounds will be removed. Erosive and dissolvable grounds will be avoided.

The installation of a water and a gas drainage networks are recommended. A protective geotextile will systematically be installed between the substrate and the geomembrane.

Method of Application

Allow the membrane to relax for approximately 30 minutes before splicing or final securement. Refer to the Elevate guidelines for specific installation instructions.

Coverage

The dimensions of the membrane are calculated to cover the base of the reservoir, slopes and anchor trenches, including seam overlaps.

Characteristics

Physical

- Elastomeric membrane with a good combination of high elasticity and tensile strength.
- Excellent resistance to UV and ozone.
- Retains its elasticity even at temperatures as low as -45°C.
- Resistant to temperature shocks up to 130°C.
- Excellent resistance to acid rains. Contact with mineral and vegetable oils, petroleum based products, hot bitumen and grease must be avoided.

| Technical | Test method | Declared value 1.0 mm | Tolerance | Unit |
|---|--------------|--------------------------|--------------------|-----------------------------------|
| Mass per unit area | EN 1849-2 | 1150 | ± 5% | g/m ² |
| Tensile strength (MD/CD) | EN 12311-2 | 9 | -1 | N/mm ² |
| Elongation without yield point (MD/CD) | EN 12311-2 | ≥ 300 | | % |
| Dimensional stability | EN 1107-2 | ≤ 0.5 | | % |
| Flexibility at low temperature | EN 495-5 | ≤ -45 | | °C |
| Resistance to static puncture | EN ISO 12236 | 0.6 | -0.1 | kN |
| Distance of the plunger before puncture | EN ISO 12236 | 110 | -5% | mm |
| Water permeability (liquid tightness) | EN 14150 | 3.0 10 ⁻⁶ | ± 10 ⁻⁶ | m ³ /m ² .d |
| Durability - weathering (25y) | EN 12224 | Pass | | |
| Durability - oxidation | EN 14575 | Pass | | |
| Resistance to root penetration | CEN/TS 14416 | Pass | | |

Note: As European standards continue to develop, please contact our Technical Department or visit www.holcimelevate.com for the latest updates on physical properties.

Storage

Store away from sources of punctures and physical damage. Store away from ignition sources and open flame.

Shelf Life

Unlimited.

Precautions

Take care when moving, transporting and handling to avoid sources of punctures and physical damage. Refer to Product Safety Information Sheet (PSIS) for additional safety information.

Note:

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