



**HDPE (with fabric) and Bentonite Laminated Geomembrane**

- High puncture resistance ...provides maximum protection and durability.
- Impermeable to water and gases (methane).
- Provides an excellent substrate for concrete to adhere to.
- Reinforces the spray of fluid applied membrane.
- Self sealing.

**PROPERTIES**

**TEST METHOD**

**Membrane**

Film .....	HDPE / Fabric Geomembrane
Puncture-Propagation Tear Resistance .....	ASTM D 2582 ..... 7.7 lbs. (3,500 gm)
Tensile Strength: Membrane (psi) .....	ASTM D 882 ..... 6,100 psi (42 Mpa)
% Elongation at break .....	ASTM D 882 ..... 100%
Bentonite .....	Sodium Montmarilonite (>90%)
Overall Weight .....	0.6 per sq. ft. (2.44 kg/m <sup>2</sup> )
Resistance .....	ASTM D 751 Procedure A ..... 174 ft. (52.9m) of water
Crack Bridging .....	1/8" (.032 cm) crack
Water Vapor Permeability .....	ASTM E 96 ..... 0.53 x 10 <sup>-13</sup> cm/sec
	0.84 ng/m <sup>2</sup> .s. Pa
	0.033 Perms (grains/ft <sup>2</sup> . hr. in Hg)

**Installed System**

Puncture Resistance Of Membrane .....	ASTM D 781 ..... 110 Kg/CM
Puncture Resistance Of Composite .....	ASTM E 154 ..... 40 Min. LBS
Tensile Strength Of Composite .....	ASTM D 412 Modified Die C ..... 750 PSI Min.
Elongation-Ultimate Failure Of Rubberized Asphalt .....	ASTM D 412 Modified Die C ..... 400% Min.
Water Vapor Transmission Permeance .....	ASTM E 96 Method B ..... 0.1 Max. Grains/SF/Hr in Hg

**Roll Size:** 3.5' x 36', **Weight:** 75 lbs.

**EPRO SERVICES, INC.**  
**P.O. Box 347**  
**Derby, KS 67037 USA**



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# ECOSHIELD-PB Specifications

## 1. PRODUCT NAME

ECOSHIELD-PB

## 2. MANUFACTURER

EPRO SERVICES, INC.  
P.O. Box 347  
Derby, KS 67037  
PHONE: 800-882-1896  
FAX: 316-262-2529

## 3. PRODUCT DESCRIPTION

### Basic Use:

ECOSHIELD-PB has been specifically designed to provide cost effective and high performance protection for the waterproofing membrane on composite waterproofing systems as well as a self sealing waterproofing layer. The fabric also provides an excellent substrate for concrete to bond to. When used in detailing of specific water penetration points (i.e. cold joints, footings, and pipes), it enhances the tensile strength of the other detailing products. It is also to be used as a superior performing vapor and gas barrier underslab.

### Composition:

ECOSHIELD-PB is an extremely tough, high strength geomembrane made from the lamination of HDPE film and unwoven polypropylene fabric and chemically bonded bentonite granules and fabric.

### Benefits:

- Impermeable to water...offers additional relief from hydrostatic water pressure and resistance to earth contaminants.
- Provides better cured grout, mortar & concrete by retaining a water line.
- Self sealing..
- High puncture resistance protects waterproofing from subsequent construction damage.
- Excellent substrate for concrete to adhere to.

### Limitations:

- Should be stored out of weather.
- Should not be used in lieu of high-flow drainage mat if it is required.

## 4. TECHNICAL DATA

**Properties:** See chart

**Coverages:** See chart

### Specification Writer:

Contact EPRO Services before writing specifications on this product. Test information available upon request.

## 5. INSTALLATION

**Preparation & Application:** Should be applied in accordance with specific application guide specifications.

**Tools:** No special tools required for installation.

## 6. AVAILABILITY AND COST

Contact the local distributor or Authorized Applicator for availability and cost.

## 7. WARRANTY

Limited Warranty: EPRO warrants this product to be free from defects. EPRO makes no other warranties with respect to this product, express or implied, including without limitation the implied warranties of MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. EPRO's liability shall be limited in all events to supplying sufficient product to retreat the specific areas to which defective product has been applied. EPRO shall have no other liability, including liability for incidental or resultant damages, whether due to breach of warranty or negligence. This warranty may not be modified or extended by representatives of EPRO or its distributors.

## 8. MAINTENANCE

No maintenance required.

## 9. TECHNICAL SERVICES AND INFORMATION

Complete technical services and information are available from EPRO Services.

