



## e.shield 205b



### Product Description

**Basic Use:** e.shield 205b has been specifically designed to provide maximum redundancy to E.Series systems requiring high performance building protection. Installed on underslab and shoring assemblies, e.shield 205b exemplifies EPRO's redundant field installed composite design concept by combining a protective geotextile, a layer of high density polyethylene (HDPE), and bentonite into one sheet that serves as protection course for the remaining E.Series components. When combined into one system, this provides extraordinary protection from water, methane, and chemical vapor intrusion.

**Composition:** e.shield 205b is a redundant geocomposite bentonite membrane comprised of three distinct layers, a nonwoven polypropylene geotextile, an HDPE film, and then a chemically bonded layer of sodium montmorillonite bentonite.

### Benefits

- Confines bentonite within membrane assembly to provide a redundant self-sealing layer
- Fully adheres to concrete or shotcrete
- High puncture resistance protects waterproofing from subsequent construction damage
- When sealed properly, pre-activation prior to concrete placement will not occur

### Limitations

- Should not be stored in the rain
- Contaminated groundwater may inhibit performance and compatibility testing is required on all sites where contamination might be of concern

### Technical Data

**Properties:** See physical properties table

**Coverages:** One roll covers 128 square feet, not including overlaps or waste

**Specification Writer:** Contact EPRO before writing specifications on this product. E.Series system assemblies should be reviewed in order to meet project specific site conditions.

### Installation

**Preparation:** Please refer to manufacturer's specifications for substrate requirements. Rolls should be inspected for cosmetic damage prior to application. e.shield 205b may be applied over a nominally cured e.spray membrane.

**Application:** Please refer to manufacturer's specifications. Whenever possible, e.shield 205b should be applied perpendicular to the underlying base course. Overlap all seams a minimum of 3" with seam overlap detail per project specification while taking into account anticipated weather conditions.

### Availability and Packaging

Contact EPRO sales representative for local distributors or authorized applicators ([www.eproinc.com](http://www.eproinc.com)).

Roll Size: 4' x 32' rolls, 75 lbs.

### Warranty

**Limited Warranty:** EPRO Services, Inc. believes to the best of its knowledge that performance tables are accurate and reliable. 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.

### Equipment

**Seaming:** AD-55 Sprayer, available through EPRO for application of e.spray in seam overlaps, or by hand using e.roll.

### Technical Services and Information

Complete technical services and information are available by contacting EPRO at 800.882.1896 or [www.eproinc.com](http://www.eproinc.com).

This product was formally known as Ecoshield-PB.



e.shield 205b

## Typical Physical Properties

Physical Property	Test Method	Value
Film Material.....		HDPE
Film Color.....		Gray
Fabric Material.....		Non-woven Polypropylene
Fabric Color.....		White
Bentonite.....		Sodium Montmorillonite (>90%)
Tensile Strength: Membrane (psi).....	ATSM D882.....	6,100 psi (42 MPa)
% Elongation at break.....	ATSM D882.....	100%
Overall Weight.....		0.6 lb per ft <sup>2</sup> (2.44 kg/m <sup>2</sup> )
Resistance.....	ATSM D751 Procedure A.....	174 ft (52.9 m) of water
Crack Bridging.....		1.8" (.032 cm) crack
Water Vapor Permeability.....	ATSM E96.....	0.53 x 10 <sup>-3</sup> cm/sec

Dimensions: 4' x 32'

Weight: 75 pounds