



## e.shield 205



### Product Description

**Basic Use:** e.shield 205 has been specifically designed to be high performance protection course for application over e.spray in various E.Series assemblies. In addition to the advantages found by combining a high density polyethylene film (HDPE) and geotextile, e.shield 205 contains micro-perforations that further enhance the mechanical bond that is formed between system and the concrete substrate. Most commonly used in the E.Proformance underslab assemblies for waterproofing, methane, and contaminate vapor intrusion protection, e.shield 205 can be used in other assemblies when project conditions make e.shield 205b a less than ideal option.

**Composition:** e.shield 205 is an extremely durable, high strength protection course made from the lamination of HDPE film and nonwoven polypropylene geotextile fabric.

### Benefits

- Forms a mechanical bond directly to concrete
- Leverages the strengths of two materials to maximize performance and puncture resistance
- Minimal seams with 12'x 150' rolls
- Provides a contrasting protection course that increases ability to identify post installation damage
- Micro-perforations help aid in the curing of the e.spray under concrete

### Limitations

- Does not provide an added layer of bentonite protection
- Bonding to underlying e.spray layer might take longer in colder temperatures

### Technical Data

**Properties:** See physical properties table

**Coverages:** One roll covers 1800 square feet, not including overlaps or waste

**Specification Writer:** Contact EPRO before writing specifications on this product. Test information available upon request.

### Installation

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

**Application:** Should be applied in accordance with specific application guide specifications. Whenever possible, e.shield 205 should be applied perpendicular to the underlying base course. Overlap all seams a minimum of 6" with seam overlap detail per project specification.

### Availability and Packaging

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

**Roll Size:** 12' x 150' unfolded rolls, 108 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-PP.



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## Typical Physical Properties

Physical Property	Test Method	Value
Film Material.....		HDPE
Film Color.....		White
Fabric Material.....		Non-woven Polypropylene
Fabric Color.....		White
Film Thickness.....		5 Mil
Composite Thickness.....		18 Mil
Tensile @ ULT .....	ASTM D882.....	TD: 32.0 lbs/in
.....		MD: 37.3 lbs/in
Elongation @ ULT .....	ASTM D882.....	TD: 65.3%
.....		MD: 51.0%
Dart Impact .....	ASTM D1709.....	Method A: >1070 grams
.....		Method B: 894 grams
Modulus .....	ASTM D882.....	TD: 270.6 lbs/in
.....		MD: 295.5 lbs/in
Elmendorf Tear .....	ASTM D1922.....	TD: 5,140 grams
.....		MD: 5,260 grams
Puncture-Prop Tear .....	ASTM D2582.....	TD: 13,250 grams Sled: 1-lb
.....		MD: 11,290 grams Sled: 1-lb
Beach Puncture Tear .....	ASTM D751.....	TD: 165 in-lbs
.....		MD: 160 in-lbs
Water Permeance .....	ASTM E96 .....	0.11 perms (US)

Dimensions: 12' x 150'

Weight: 108 pounds