



## e.shield 110

### Product Description

Basic Uses: e.shield 110 is specifically designed to provide a protection course for E.Series waterproofing systems being applied to below grade over excavated walls and plaza decks. Within the redundant field installed composite design philosophy, e.shield 110 adds another layer of waterproofing protection, serves as a protection course to the previously installed e.spray layer, and acts as a slip-sheet between the e.drain drainage composite. e.shield 110 exceeds ASTM E 1745 class A, B, and C requirements.

Composition: e.shield 110 is a red 10 mil geomembrane made from a custom blend of polyolefin copolymers.

### Benefits

- High puncture resistance and durability enhance system performance and redundancy
- Provides a cost effective option for budget minded projects

### Limitations

- Should not be used in below grade hydrostatic conditions
- Should not be used in lieu of high flow drainage mat

### Technical Data

Properties: See physical properties table

Coverages: 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.

Application: Please refer to manufacturer's specifications. General guidelines include 6" seam overlaps with a 30 mil application of e.spray in the seam overlap.

### 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' folded rolls, 99 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-E10.



e.shield 110

## Typical Physical Properties

| Physical Property                             | Test Method | Value               |
|---|-------------|---------------------|
| Film Material.....                            |             | Polypropylene       |
| Film Color.....                               |             | Red                 |
| Film Thickness.....                           |             | 10 Mil              |
| Classification.....                           | ASTM E1745  | Class A, B & C      |
| Water Vapor Permeance.....                    | ASTM F1249  | 0.018 perms         |
| Tensile Strength.....                         | ASTM D882   | 58 lbf/inch         |
| Puncture Resistance.....                      | ASTM D1709  | 3000 grams          |
| Life Expectancy.....                          | ASTM E154   | Indefinite          |
| Chemical Resistance.....                      | ASTM E154   | Unaffected          |
| Low Temp. Impact.....                         | ASTM D1790  | Resistant to 105° C |
| Methane Gas Modified.....                     | ASTM D1434  | 298.01 GTR          |
| ACI 302.1 R-96 Minimum Thickness 10-mils..... |             | Exceeds             |

Dimensions: 12' X 150'

Weight: 99 pounds