



System: E.Protect

Former System Name: System III-MBB

Application: Underslab

System Thickness: 178 mils

	1st Layer	2nd Layer	3rd Layer
Product Name	e.base 205	e.spray 80 mils	e.shield 205b
Former Name	Ecoshield-H16	Ecoline-S	Ecoshield-PB

DESCRIPTION

E.Protect Underslab is a redundant field-installed composite waterproofing, methane gas, and vapor intrusion barrier used to seal below-grade building foundations. Ideal for below-grade building foundations requiring underslab waterproofing protection, but where site conditions or budget considerations might not require maximum protection. E.Protect Underslab leverages three key waterproofing materials: high density polyethylene (HPDE), spray applied polymer modified asphalt (PMA), and bentonite, to create redundancy against a wide range of project conditions and chemicals of concern.

E.Protect Underslab is designed to be compatible with all types of building foundations.

BENEFITS

- Chemically Resistant. Provides a high level chemical resistance to a wide range of contaminants commonly found in soil and groundwater.
- Redundant: Three layers of different waterproofing materials create a composite system that is superior to the materials used on their own.
- Seamless. Composite field-installed membranes do not contain a continuous seam.
- Fully Bonded: The system mechanically bonds to any concrete overlay.
- Fast Installation: Composite systems allow for large areas to be installed very quickly, saving time and money for building owners.
- Continuous Active Protection: The bentonite layer creates a uniform self-sealing membrane.

LIMITATIONS

- This system configuration does not include a thermally welded base sheet.
- Sites with brackish water and/or contamination will require compatibility testing to determine the appropriate use of bentonite.
- Extreme weather conditions can impact installation methodology.

SPECIFICATIONS, DRAWINGS, AND TECHNICAL ASSISTANCE

The most current specifications and drawings can be found on www.eproinc.com. For project specific details contact EPRO directly, or the local EPRO representative.

Site conditions, performance goals, and budget determine which system is more appropriate for a given project. For more information regarding product performance, testing, plan review, or general technical assistance, please contact EPRO.

WARRANTY

EPRO provides a wide range of warranty options for E.Series systems. For a project to be eligible for any warranty option beyond a 1-year material warranty, an EPRO Authorized Applicator must be used and the project must be registered and approved by EPRO prior to the commencement of any product application.

Warranty options available for this system include:

- Material warranty
- E.Series Labor and Material Warranty
- E.Assurance No-Dollar-Limit Warranty

For information relating to EPRO's E.Assurance warranty program, contact EPRO. All E.Assurance no-dollar-limit labor and material warranties are approved on a project by project basis. E.Assurance warranties are available for deck applications when E.Series systems are used on the below-grade envelope.

PROPERTIES	TEST METHOD	VALUE
Tensile Strength	ASTM D412	462.9 psi
Elongation	ASTM D412	735%
Adhesion to Concrete	ASTM D903	8 lbf/in
Puncture Resistance	ASTM D1709	447.1 lbf
Hydrostatic Head Resistance	ASTM D5385	100 psi (231 ft)
Water Vapor Transmission	ASTM E96	.033 perms