

POLYGUARD UNDERSEAL®

WATERPROOFING MEMBRANES

Underslab, Blindside, Split Slab, and Protected Wall Membranes

U.S. Patent No. 7,488,523



Underseal® Underslab Waterproofing Membrane

Underseal UNDERSLAB Membrane is a tough 95 mil thick waterproofing/vapor barrier that virtually eliminates water and vapor transmission through concrete slabs on grade. In addition to providing superior waterproofing protection, UNDERSLAB Membrane protects buildings from the harmful effects of gas and vapor intrusion as well as pesticides and termite infestation.

UNDERSLAB Membrane provides a permanent seal underneath the foundation slab. The self-adhesive laps eliminate most of the costly tape applications that other systems require to achieve side lap integrity. The strong mechanical bond developed between the UNDERSLAB Membrane and concrete eliminates moisture migration beneath the waterproofing system.

Here are a few of the key Features and Benefits of the UNDERSLAB Membrane System:

Features:

- 3 layers of waterproofing/barrier protection
- Self-adhering laps
- Strong mechanical bond to substrate
- Barrier action against methane & radon gases
- Installed horizontally and vertically
- Superior puncture resistance
- Pesticide and termite barrier properties

Benefits:

- Superior waterproofing performance
- Eliminates costly tape installation
- Eliminates water/vapor migration
- Protects interior air quality
- Continuity of filed application
- Meets jobsite challenges to damage
- Protects environmental quality



Underseal® Blindside Waterproofing Membrane

Underseal BLINDSIDE Membrane is used to provide superior positive-side waterproofing and barrier protection to vertical walls of structures that have various soil retention systems. BLINDSIDE Membrane is used to waterproof the “blindside” of the wall next to the timber lagging, soldier piling, sheet piling, shotcrete or gunite backup wall assemblies that are typical in construction.

BLINDSIDE Membrane is a 73 mil thick composite that is mechanically attached to the retention system. It is designed to readily receive poured concrete and forms a permanent mechanical bond with the cured slurry to waterproof and protect the structure from the harmful effects of water and toxic contaminants and gasses.

BLINDSIDE Membrane may be used alone or in combination with UNDERSLAB Membrane to provide structures with a complete envelope of protection.

Features:

- Superior bond strength with substrate
- Self-adhering laps
- Thick, multi-layer design for protection
- Excellent methane & radon barrier
- Pesticide and termite protection
- Extended exposure time (30 days)

Benefits:

- Eliminates moisture migration
- Eliminates costly tape installation
- Reduced jobsite puncture and damage
- Protects interior air quality
- Environmental quality protection
- Provides scheduling flexibility

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This information is based on our best knowledge, but
POLYGUARD cannot guarantee the results to be obtained.



Polyguard is ISO 9001 certified since 1996.



Underseal® Split Slab Waterproofing Membrane

Underseal SPLIT SLAB Membrane is designed as a thick waterproofing and vapor barrier membrane for applications on horizontal slabs where a topping slab is required. These applications are typically found on parking garages, plaza decks and balconies where waterproofing performance is critical and total system thickness is an issue.

SPLIT SLAB Membrane is unique in that it does not require a separate protection course to be installed prior to the concrete topping slab application in most situations. The 20 mil thick high strength polyethylene backing provides the enhanced protection against jobsite traffic and damage. The total membrane thickness of 75 mils provides self-adhering protection that is tightly and permanently bonded to the structure.

Features:

- Self-adhering sheet and laps
- Rubberized asphalt and polyethylene
- Excellent peel adhesion and lap strength
- Proven system of protection
- Barrier properties against gases, toxins & termites

Benefits:

- Eliminates water migration
- Twin layers of waterproofing protection
- Insures watertight seal at all seams
- Contractor confidence
- Protection of interior air quality & the environment

Underseal® Protected Wall Waterproofing Membrane

Underseal PROTECTED WALL MEMBRANE is designed to provide exterior wall waterproofing that is self-protected. The Membrane is manufactured with an overall thickness of 65 mils with a tough polyethylene backing that is resistant to normal jobsite damage. The laps are self-adhering as is the entire sheet.

PROTECTED WALL MEMBRANE promotes faster waterproofing installations by allowing the backfilling operations to occur without the need for additional protection materials. This saves time and eliminates the costly call-backs sometimes associated with damaged protection board and the necessary replacement.

PROTECTED WALL MEMBRANE is installed only on vertical walls but is readily adhered to various other Polyguard membranes to complete the building waterproof envelope.

Features:

- Self-protected application
- Self-adhering sheet and laps
- Thick polyethylene backing
- Superior barrier protection vs. all competitors

Benefits:

- Faster waterproofing installation
 - Superior waterproofing attachment
 - Reduces jobsite puncture
 - Eliminates water, toxic gas, termite and pesticide intrusion
- Fabric Seam Tape
Seal Tape

UNDERSEAL™ SYSTEM ACCESSORIES

- Termination Bar
- Polyguard 650 LT Adhesive
- Polyguard Mastic
- Polyguard LM-95 Detailing Liquid
- Polyguard LM-85 Self-Leveling Liquid
- Drainage Composites:
 - Flow 15P – Vertical
 - Flow 18H – Horizontal
 - Total Flow Perimeter Drainage & Accessories

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