



## TegraSeal 500™ Waterproofing Membrane

### Product Description

TegraSeal 500™ waterproofing membrane combines the thermal stability and high performance of a cross-laminated HDPE sheet with the long-term sealing of bentonite clay. Installation is fast and efficient - bonding tightly to CureTite™ Adhesive. NO NAILING IS REQUIRED. It is non-toxic, fire resistant, and emits no solvents or volatiles. TegraSeal 500™ will have unsurpassed life expectancy and provide waterproof protection equal to the life of the structure.

### Basic Uses

TegraSeal 500™ is a waterproofing membrane designed for use on below-grade or split-slab structures. It is excellent for use on CMU block, poured and ICF foundation walls, tunnels, plaza and parking decks. It is designed for easy installation with CureTite™ spray/roller-grade adhesive, depending on the project.

### Benefits

- Strong cross-laminated HDPE
- Self-sealing bentonite layer
- Easy installations with CureTite™ Adhesive
- Adhesion to concrete
- Adjustable placement
- Longevity: life of the structure
- No VOC—solvent free

### INSTALLATION

For complete installation guidelines, contact your Distributor, Sales Representative, TegraSeal Products at 888-815-1816 or visit our website for details [www.tegraseal.com](http://www.tegraseal.com).

### Preparatory Work

Examine all surfaces prior to starting application. Standing water, sharp protrusions over ¼" (6.4 mm) and all debris must be removed. TegraSeal 500™ is compatible with most release agents and may proceed on damp/uncured but not wet surfaces. Trowel TegraSeal Mastic at vertical-horizontal inside corner transitions prior to installing TegraSeal 500™. TegraSeal Granular pack may be used on wall to footing inside corners.

### Backfilled Structures

TegraSeal 500™ rolls are installed either vertically or horizontally with bentonite towards the concrete structure, lapping seams 1½" to 3" (3.8 to 7.6 cm). CureTite Adhesive will cover approximately 125 to 150 square feet per gallon. Apply CureTite Adhesive with a roller or spray equipment. CureTite Adhesive is white and dries clear. After the CureTite Adhesive application, allow it to cure to 50% dry, before applying the TegraSeal 500 waterproofing membrane. If sheet adjustment is required remove immediately and reapply CureTite Adhesive and let cure to 50% dry before reattaching TegraSeal.

Seal seams with TegraSeal Bitumen Tape. Cover TegraSeal 500™ with insulation, drain board, protection board, or 20 mil HDPE as specified. Backfill and compact to minimum 85% modified proctor.

### Packaging

Rolls of 39" x 37' (0.99 m x 11.2 m) or 120 SF (11 m<sup>2</sup>) per package weigh 72 lbs (32.7 kg) .6 lbs per SF.

### Storage

Protect from moisture. Store on skid or pallet, cover with polyethylene or tarp.

### Availability

Available world-wide through TegraSeal distributors. Contact us for details.

### Limitations

TegraSeal 500™ must be confined by a minimum of 24 psf. Keep TegraSeal 500™ dry, protect from exposure to the elements. TegraSeal 500™ is resistant to many common contaminants in soil. Please contact TegraSeal for compatibility testing.



**Warranty**

TegraSeal Products, LLC (TegraSeal) warrants its products will be delivered free of defects in materials and workmanship. TegraSeal will replace the material or refund the purchase price.

TegraSeal makes no other warranty, including an implied warranty of merchantability or fitness for a particular purpose. TegraSeal shall not be liable for any other loss or damage. Contact TegraSeal to discuss specific details and warranty periods

**TegraSeal 500™ Waterproofing Membrane**

**TYPICAL PHYSICAL PROPERTIES**

Physical Property	Test Method	Value
<b>TegraSeal 500™ Membrane</b>		
Membrane		Black 4-mil cross laminated HDPE
Puncture-Propagation Tear Resistance	ASTM D2582	7.7 lbs. (3,500 gm)
Tensile Strength: Membrane (psi)	ASTM D882	6,100 psi (42 MPa)
% Elongation at break	ASTM D882	100%
Bentonite		Sodium Montmorillonite (>90%)
Overall Weight		0.6 lb per sq foot (2.44 kg/m <sup>2</sup> )
Resistance to hydrostatic head	ASTM D751 Procedure A	174 ft. (52.9 m) of water
Crack Bridging		1/8" (0.32 cm) crack
Water Vapor Permeability:	ASTM E96	0.53 x 10 <sup>-13</sup> cm/sec 0.84 ng/ m <sup>2</sup> .s.Pa 0.033 Perms (grains/ft <sup>2</sup> · hr · inHg)
<b>CureTite™ Adhesive</b>		
Color		White
Odor		acrylic
Solids		65%
Ph		6.
Viscosity		100 cps
Cohesion		28
Track HDPE (N/sqin)		15
Flash Point		Noncombustible
Hazardous reactions		None know/stable
Freeze/thaw stability		Do not freeze
Usage SF		125- 150 SF
Application		Roller or sprayer
<b>Installed System with TegraSeal</b>		
<b>Bitumen Taped Seams</b>		
Puncture Resistance membrane	ASTM-D-781	110 Kg/CM
Puncture Resistance of composite membrane:	ASTM-E-154	40 Min. LBS
Tensile Strength of composite membrane:	ASTM-D-412 Modified Die C	750 PSI Min.
Elongation – Ultimate failure of Rubberized Asphalt	ASTM-D-412 Modified Die C	400% Min.
Water Vapor Transmission – Permeance	ASTM-E-96 Method B	0.1 Max. Grains/SF/Hr in HG