



## TegraTite Waterproofing Membrane

### Product Description

The TegraTite membrane combines the swelling properties of bentonite with the strength and protection of a HDPE sheet to form a self-sealing waterproofing membrane. The tough 20-mil virgin-resin HDPE membrane provides the primary waterproofing envelope while the expandable bentonite clay provides the self-sealing assurance (even under hydrostatic conditions). At 1 lb per square foot, TegraTite system will provide long-term waterproof protection.

### Basic Uses

TegraTite is a waterproofing membrane designed for use on structures below grade or between slab. It is excellent for use on poured and block foundation walls, tunnels, parking and plaza decks. It has outstanding performance when used under conditions of high water head.

### INSTALLATION

For complete installation guidelines, please contact TegraSeal Products, ask your TegraSeal Representative, or go to our website for details.

### Preparatory Work

Examine all surfaces prior to starting application. Dust may be present; however all debris must be removed. Standing water and sharp protrusions over  $\frac{1}{4}$ " (6.4 mm) must be removed. Installation may proceed on uncured, damp or frozen surfaces. Pour a 2" (5.1 cm) cove of Bentonite Granular Pack or trowel TegraSeal Mastic at intersection of wall and footing prior to TegraTite installation. TegraTite is compatible with all currently used release agents.

### Vertical Walls

TegraTite is installed either vertically or horizontally with the bentonite side towards the concrete structure by nailing across the top, lapping vertical seams  $1\frac{1}{2}$ " to 3" (3.8 to 7.6 cm) and nailing every 2' (0.6 m) with masonry nails. Close the seams with TegraSeal Seam Tape or box staple. Compact fill to minimum 85% modified proctor.

### Protection

The TegraTite dual waterproofing system does not require an additional protection course for most applications. For special applications, contact your TegraSeal Representative for details.

### Packaging

3.5' x 21.5' (1.1 m x 6.6 m) or 75 sf (7 m<sup>2</sup>) standard rolls. Customized lengths are available by SPECIAL ORDER.

### Storage

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

### Availability

Available nationwide through TegraSeal distributors. Contact TegraSeal at 888-815-1816 or [www.tegraseal.com](http://www.tegraseal.com) for details.

### Limitations

TegraTite installation must be confined by a minimum of 24 lbs per sf. Keep TegraTite dry, protect from exposure to the elements. TegraTite 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 for extended warranty periods.



## TYPICAL PHYSICAL PROPERTIES

Physical Property	Test Method	Value
Membrane		Green 20-mil virgin resin HDPE
Bentonite		Sodium Montmorillonite
Weight		1 lb per sq foot (4.89 kg/m <sup>2</sup> )
Puncture Resistance	ASTM E154-88	171 lbs. (77.5 kg)
Tensile Strength: Membrane	ASTM D638	MD: 3660 psi (25.2 MPa) TD: 3650 psi (25.2 MPa)
% Elongation at break-	D638 Type 4 Dumbbell	>700%
Crack Bridging		<sup>3</sup> / <sub>8</sub> " (0.95 cm) crack
Resistance to hydrostatic head	ASTM D751 Procedure A	174 ft. (52.9 m) of water
Water Vapor Permeability:	ASTM E96-80	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)
Resistance to micro organisms: (bacteria, fungi, mold, yeast)	ASTM E154-88 Section 13	Unaffected
Toxicity:		Low. Do not ingest
Staining:		No known incompatibilities
Chemical Resistance:		Extremely high resistance to chemicals & gases. Contact manufacturer for specific information.
Freeze/thaw cycles:		No effect before or after installation.
Installation Temperatures	ASTM D746, ASTM D1238	-40°F to 150°F (-40°C to 65.5°C)
Life Expectancy:		Both high-density polyethylene and bentonite have life expectancy measurable in thousands-of-years.