



TegraTite-Plus SCR Waterproofing Membrane

Product Description

TegraTite-Plus SCR is a multi-layer waterproofing membrane especially designed for contaminated or brackish water. TegraTite-Plus SCR consists of virgin HDPE laminated with polymer-modified bentonite, and a layer of non-woven polypropylene. The tough HDPE membrane provides the primary waterproofing envelope while the bentonite clay expands and re-seals even under hydrostatic conditions. The polypropylene fabric protects the bentonite from exposure to inclement weather and direct installation of shotcrete.

Basic Uses

TegraTite-Plus SCR waterproofing membrane is used on structures below grade in brackish, salty or contaminated water. It is effective where the waterproofing is applied before the walls or floor are poured such as lagging, under floors, and elevator pits or standard installations such as backfilled wall, decks/tunnels. It has outstanding performance when used under conditions of high water head.

INSTALLATION

For complete installation guidelines, please ask your sales Representative, call TegraSeal Products at 888-815-1816 or visit our website for details.

Preparatory Work

TegraTite-Plus SCR requires firm background to maintain 24 lb per sf compression. Fill voids or spaces more than 1" with grout and/or plywood. Remove nails and sharp protrusions over 1/4" (6.4 mm). Installation may proceed on green concrete with damp or frozen surfaces in all weather, but standing water must be removed. Cover lagging boards and soldier piles with suggested drainage layer. Complete installation at penetrations (utility and/or tiebacks) as describe by the manufacturer.

Backfilled Wall

TegraTite-Plus SCR rolls are installed, either vertically or horizontally with the bentonite towards the concrete structure, by nailing across the top every 20" (0.51 m), lapping seams at least 4" (10.2 cm). Overlap seams as shingles. Close the seams with nails at 3' (0.9 m) o.c. and Seam Tape.

Lagging

TegraTite-Plus SCR rolls are installed, either vertically or horizontally with the bentonite towards the concrete structure, by nailing across the top every 20" (0.51 m), lapping seams at least 4" (10.2 cm). Overlap seams as shingles. Close the seams with nails at 2' (0.6 m) o.c. and box staple between.

Under Slab

TegraTite-Plus SCR waterproofing system will provide a waterproof seal and a vapor barrier. Roll out membrane bentonite down on the mud slab or over compacted earth with 6-mil HDPE. Overlap and stagger seams at least 4" (7.6 cm). Fasten with staples or nails. Tape seams. Tie in the floor to other surfaces as described by the manufacturer. Protect area from flooding prior to concrete pour.

Protection

The TegraTite-Plus SCR 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 m²) 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 us for details.

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.

Limitations

TegraTite-Plus SCR installation must be confined by a minimum of 24 lbs per sf. Keep TegraTite-Plus SCR dry, protect from exposure to the elements. TegraTite-Plus SCR is resistant to many common contaminants in soil. Please contact TegraSeal for compatibility testing.

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.

Warranty

TegraTite-Plus SCR Waterproofing Membrane

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 ²)
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		³ / ₈ " (0.95 cm) crack
Resistance to hydrostatic head	ASTM D751 Procedure A	25 ft. (7.4 m) of water
Water Vapor Permeability:	ASTM E96-80	0.53 x 10 ⁻¹³ cm/sec 0.84 ng/ m ² .s.Pa 0.033 Perms (grains/ft ² * 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.