

CRACKS



WATERPROOFING DESIGNED FOR PROTECTION & DURABILITY

BEFORE

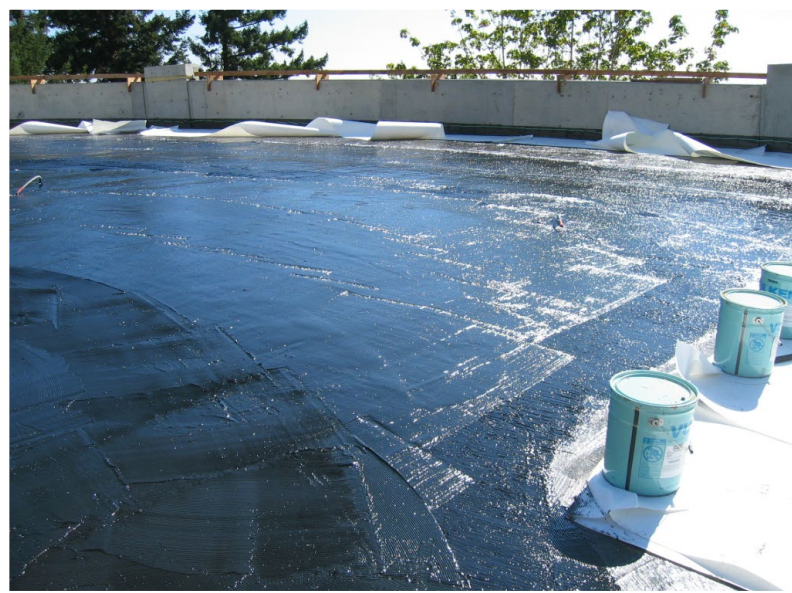


TREMCO
Commercial Sealants & Waterproofing

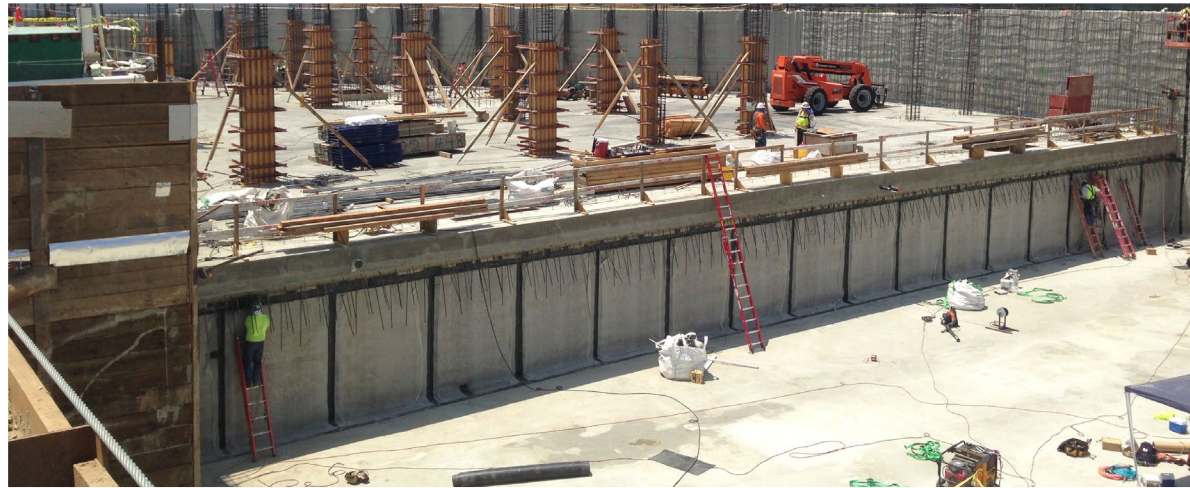


PROJECT: Oregon Health Sciences University (OHSU), Portland, OR

PRODUCTS USED: TREMproof® 250GC, Paraseal® LG Sheet Membrane, TREMDrain® 1000 Drainage and Protection Board, POWERply® Sheeting, Tremco Protection Mat



CONCRETE MEMBRANES



RAISING THE BAR ON WATERPROOFING TECHNOLOGY

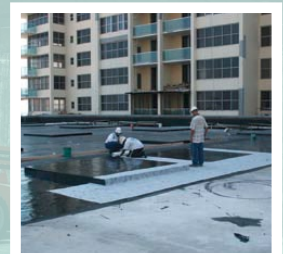
Below-grade waterproofing prevents water intrusion and is critical to avoiding costly problems in the future. Tremco Commercial Sealants & Waterproofing offers an array of options for maximum protection and expedited schedules.

- 4 **Backfilled Wall Application**
- 5 **Blindside Wall Application**
- 6-7 **Split-Slab Application**
- 8 **Below-Slab-On-Grade Application**
- 9 **Vegetated Roof Application**
- 10 **Planter Application**
- 11 **Hybrid Waterproofing Systems**
- 12 **Drainage Systems**
- 13 **System & Component Checklist**
- 14 **Waterproofing and Drainage Selection Guide**

COLD APPLIED MEMBRANES



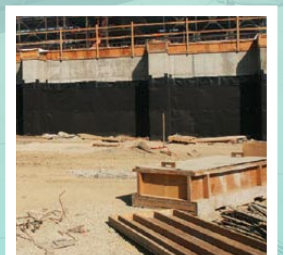
HOT FLUID-APPLIED MEMBRANES



SHEET MEMBRANES



DRAINAGE SYSTEMS



BACKFILLED WALL APPLICATION

Fluid-applied membranes, self-adhered membranes or Bentonite sheet systems may be used in backfilled wall applications. Fluid-applied membranes are particularly attractive for this type of application because they allow no part of the wall to be left untreated or exposed to moisture penetration. In addition, the excellent flexibility, strength and adhesive characteristics of these systems enable them to bridge non-structural cracks, remain flexible at low temperatures and protect against water under hydrostatic pressure. The waterproofing system for a backfilled wall should include TREMDrain drainage components to enhance the performance of the overall waterproofing system.



PROJECT: Pacific Amphitheatre, Costa Mesa, CA
PRODUCTS USED: TREMproof® 250GC

TREMproof 250GC – This cold fluid-applied elastomeric modified polyurethane waterproofing membrane is rapid-curing, high solids, VOC-compliant and can be applied to damp or green concrete. It is a one-part moisture-curing elastomer available in three viscosities: self-leveling, roller and trowel (for detailing only).

- TREMproof 250GC can be applied in as little as 24 hours following the removal of concrete forms. It can also be applied to damp concrete, reducing the delays associated with rain or other sources of moisture.
- The unique ability to catalyze TREMproof 250GC SL with water when desired will speed cure times, especially in cold temperatures and low relative humidity, to further condense the construction schedule.
- TREMproof 250GC can be applied at a rate of up to 120 mils in a single lift to speed application without sacrificing performance.
- It can also be applied in multiple lifts to achieve a 215-mil, high-build system when maximum protection is required.

TREMproof 260 – is a polymer-enhanced, single-component, fluid-applied, asphalt emulsion, below-grade waterproofing membrane. It is available in both a spray and roller grade.

- TREMproof 260 is a fully-adhered waterproofing membrane that can be applied to damp or green concrete allowing application more quickly after the removal of forms or following wet weather.
- The ability to co-spray the material to speed the curing process allows for fast-tracking construction and reduces the potential for washout in the face of inclement weather.

TREMproof 201/60 – This high-solids, VOC-compliant, modified polyurethane waterproofing membrane is a one-part, moisture-curing elastomer available in three viscosities: self-leveling, roller and trowel (for detailing only).

- When time constraints are more relaxed, this waterproofing membrane is an economical choice.

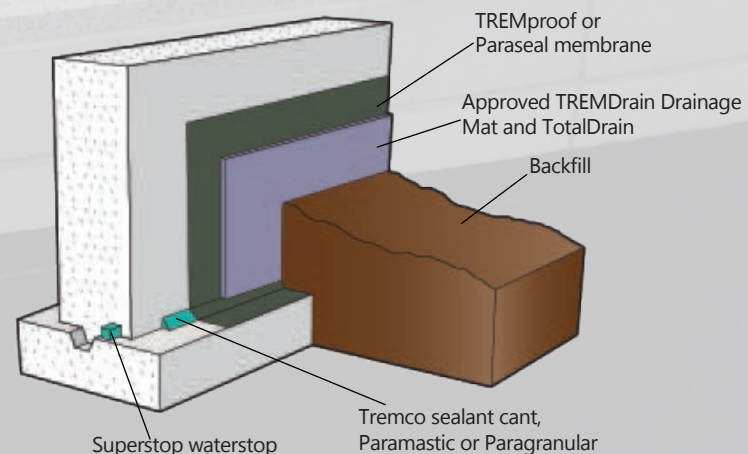
TREMproof 500 Series – Incorporates a double-scrim HDPE membrane with a special-weave pattern that enhances abrasion resistance, thickness, flatness and tear properties. This post-applied, self-adhered waterproofing membranes feature 20 mils of a high-performance butyl adhesive allowing cold-temperature application for an all-weather solution. TREMproof 545 is a 45-mil and TREMproof 560 a 60-mil composite sheet designed for use with green or damp concrete without the use of primer.

- Primerless application provides incremental labor savings.
- Can be applied to damp and green concrete to accelerate construction cycles.
- Manufactured to a preset, thickness that provides consistent and uniform coverage.
- High puncture resistance facer eliminates the need for protection course.

Paraseal Sheet Dual Waterproofing System - The nature of the Paraseal sheet dual waterproofing system allows for installation over green or damp surfaces accelerating the construction process. The bentonite can expand up to eight times its original thickness to stop water that may make it past the HDPE layer, providing a second layer of protection. Paraseal can be used in conjunction with TREMDrain Series Drainage Mats.

Paraseal – This sheet waterproofing membrane consists of 15 mils of HDPE and a layer of expandable granular bentonite. Also available in a salt water formula.

Paraseal LG – This sheet waterproofing membrane consists of 20 mils of HDPE, expandable granular bentonite, and a protective layer of spun-bonded polyester.



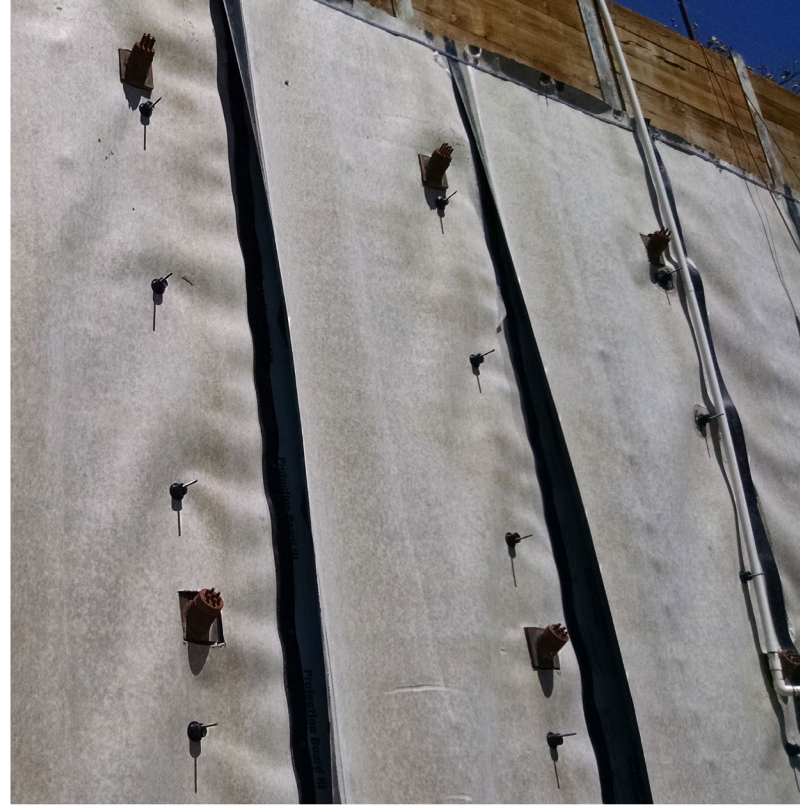
BLINDSIDE WALL APPLICATION

Blindside waterproofing is considerably more complex than traditional below-grade waterproofing because the process is “reversed” and waterproofing is installed before the concrete/shotcrete is installed. Applications can go many levels below-grade and can reach into the water table.

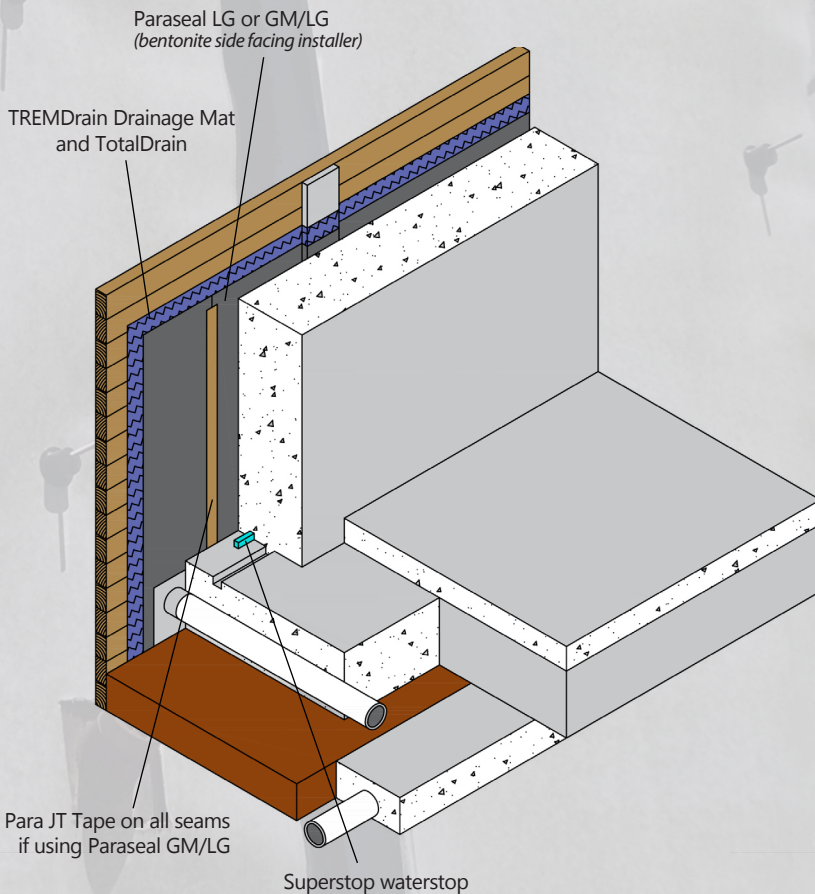
Typically, blindside projects are required in high-density areas where property lines, nearby structures and terrain limit excavation access and result in congested job sites.

Bentonite is a proven solution for blindside applications due to its ability to seal a puncture or rip and, once hydrated, it is virtually impermeable to water and other chemicals. It can also be applied in cold weather and is tough enough to withstand shotcrete applications directly on the face of the membrane.

When not in the water-table, the waterproofing system for blindside walls should include TREMDrain drainage components to enhance the performance of the overall waterproofing system.



PROJECT: Taglyan Complex, Los Angeles, CA
PRODUCTS USED: Paraseal® GM/LG 60 Mil



Paraseal Sheet Dual Waterproofing System -

The nature of the Paraseal sheet dual waterproofing system allows for installation over green or damp surfaces accelerating the construction process. The bentonite can expand up to eight times its original thickness to stop water that may make it past the HDPE layer, providing a second layer of protection.

Paraseal LG – This sheet waterproofing membrane consists of 20 mils of HDPE, expandable granular bentonite, and a protective layer of spun-bonded polyester.

Paraseal GM – This sheet waterproofing and methane-mitigating membrane consists of 20 mils of HDPE and expandable granular bentonite. The HDPE extends beyond the bentonite on the perimeter edges to create a clean surface for Para JT Tape and Parastick ‘n’ Dry Tape installation. Also available in salt water formula.

Paraseal GM/LG 20 Mil – This sheet waterproofing and methane-mitigating membrane consists of 20 mils of HDPE, expandable granular bentonite and a protective layer of spun-bonded polyester. The HDPE extends beyond the bentonite on the perimeter edges to create a clean surface for Para JT Tape and Parastick ‘n’ Dry Tape installation.

Paraseal GM/LG 60 Mil – This sheet waterproofing and methane-mitigating membrane consists of 60 mils of HDPE, expandable granular bentonite and a protective layer of spun-bonded polyester. The HDPE extends beyond the bentonite on the perimeter edges to create a clean surface for extruded weld or wedge weld installation.

SPLIT-SLAB APPLICATION

A split-slab, also known as a “sandwich slab”, is made up of a horizontal structural slab over which the waterproofing membrane is applied. A topping slab, or wear course, is then installed over the waterproofing membrane to protect it from weathering and wear. Split-slab design is commonly found in plaza decks, also known as podium decks. The waterproofing system for split-slab applications should include TREMDrain drainage components to enhance the performance of the overall waterproofing system.

TREMProof 250GC – This cold fluid-applied elastomeric modified polyurethane waterproofing membrane is rapid-curing, high solids, VOC-compliant and can be applied to damp or green concrete. It is a one-part moisture-curing elastomer available in three viscosities: self-leveling, roller and trowel (for detailing only).

- TREMProof 250GC can be applied in as little as 24 hours following the removal of concrete forms. It can also be applied to damp concrete, reducing the delays associated with rain or other sources of moisture.
- The unique ability to catalyze TREMProof 250GC SL with water when desired will speed cure times, especially in cold temperatures and low relative humidity, to further condense the construction schedule.
- TREMProof 250GC can be applied at a rate of up to 120 mils in a single lift to speed application without sacrificing performance.
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TREMProof 201/60 – This high-solids, VOC-compliant, modified polyurethane waterproofing membrane is a one-part, moisture-curing elastomer available in three viscosities: self-leveling, roller and trowel (for detailing only).

- When time constraints are more relaxed, this waterproofing membrane is an economical choice.

TREMProof 6100 – A one-part, 100% solids, hot-applied, rubberized asphalt waterproofing membrane.

- Create a full system by combining with reinforcing layer and other components.
- Reliable technology with an extensive trusted history.

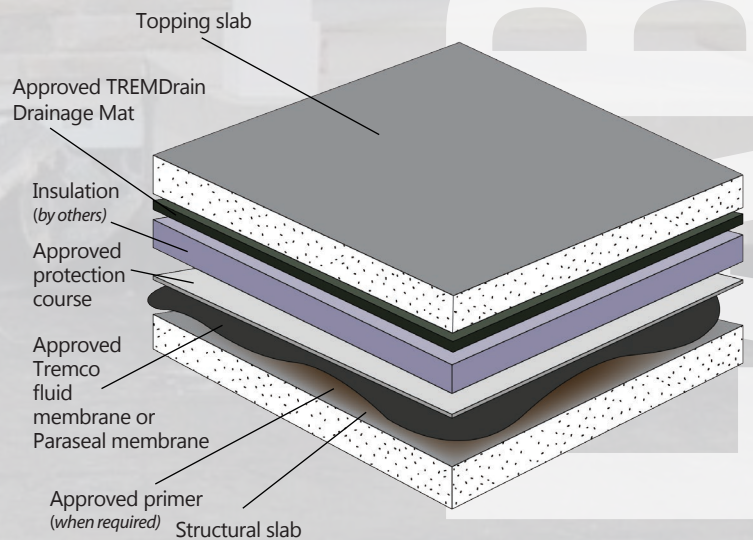
TREMProof 6145 – A part of the Permaphalt System, this hot-applied rubberized asphalt membrane is designed for use in waterproofing underneath traffic-bearing asphalt and concrete overlays.

- This formulation of an optimum balance of rubbers, asphalt and inert fillers has the toughness required at a lesser mil thickness.
- The decrease mil thickness makes it an economically feasible option for applications such as exterior parking deck surfaces and surfaces topped with traffic-bearing topping course.



TREMProof PUMA – Enhanced Polyurethane-Methacrylate (PUMA) waterproofing system for horizontal applications with superior elongation over traditional MMA/PMMA systems.

- Extreme durability with exceptional crack-bridging characteristics, eliminating the need for reinforcing fabric.
- 30-to-45-minute cure time between coats; ability to proceed to overburden 1 hour after application.
- Can be applied at temperatures as low as to 20 °F (-7 °C).



Paraseal Sheet Dual Waterproofing System -

The nature of the Paraseal sheet dual waterproofing system allows for installation over green or damp surfaces accelerating the construction process. The bentonite can expand up to eight times its original thickness to stop water that may make it past the HDPE layer, providing a second layer of protection. Can be used in conjunction with TREMDrain Series Drainage Mats.

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Deckseal – This sheet waterproofing system is primarily used when the concrete substrate has been placed on top of a non-vented metal deck. Deckseal consists of 20 mils of transparent HDPE and a layer of expandable granular bentonite. The unique transparent HDPE layer allows for thermal and dimensional stability while the membrane is exposed during installation.

BELOW-SLAB-ON-GRADE APPLICATION

It is important to consider the waterproofing system for all six sides of the structure. In a below-slab-on-grade application, it is necessary to protect the slab from the intrusion of groundwater. The waterproofing system for below-slab-on-grade applications should include TREMDrain drainage components, when in non-submerged conditions, to enhance the performance of the overall waterproofing system.

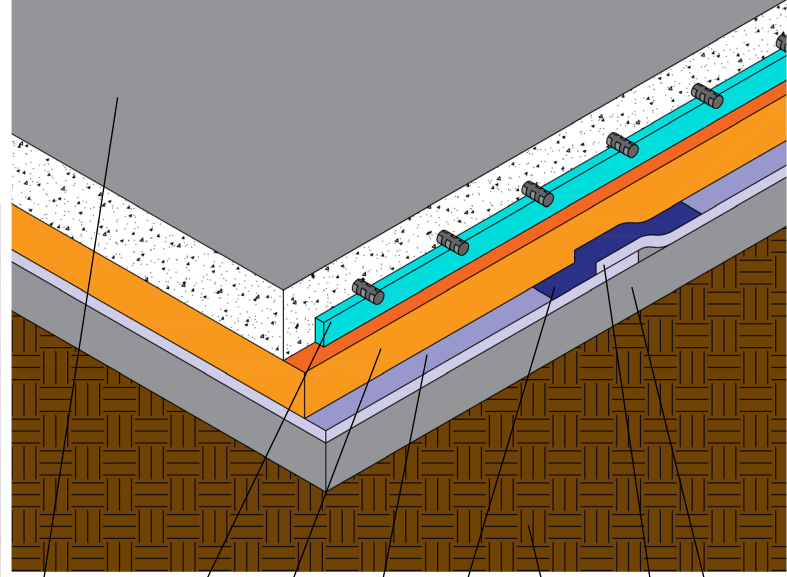
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Mat slab - heavily reinforced

Superstop Waterstop

Sand slurry protection slab

Approved Paraseal membrane (bentonite side up)

Parastick 'n' Dry Tape

Compacted earth or granular base

Mud slab

4-inch minimum overlap

PROJECT: La Brea Gateway Apartments, West Hollywood, CA
PRODUCTS USED: Paraseal® GM/LG 60 mil



VEGETATED ROOF APPLICATION

An aesthetically pleasing and environmentally responsible, high-performance vegetated roof from Tremco Commercial Sealants & Waterproofing helps ensure that every architectural design team, building owner and facility manager achieves a sustainable, innovative and cost-effective design.

Tremco has developed a variety of systems to meet vegetated design goals including increased storm water retention, increased energy efficiency, reduced facility operational costs, increased roof life-cycle and LEED certification.

Tremco's Vegetated Roofing Program comprises of high-performance, tested solutions and offers the end user a single-source warranty. All Vegetated Roof Systems are compatible with TREMproof cold and hot waterproofing membranes.

TREMproof 250GC – This cold fluid-applied elastomeric modified polyurethane waterproofing membrane is rapid-curing, high solids, VOC-compliant and can be applied to damp or green concrete. It is a one-part moisture-curing elastomer available in three viscosities: self-leveling, roller and trowel (for detailing only).

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TREMproof 6100 – A one-part, 100% solids, hot-applied, rubberized asphalt waterproofing membrane.

- Create a full system by combining with reinforcing layer and other components.
- Reliable technology with an extensive trusted history.

TREMproof PUMA – Enhanced Polyurethane-Methacrylate (PUMA) waterproofing system for horizontal applications with superior elongation over traditional MMA/PMMA systems.

- Extreme durability with exceptional crack-bridging characteristics, eliminating the need for reinforcing fabric.
- 30-to-45-minute cure time between coats; ability to proceed to overburden 1 hour after application.
- Can be applied at temperatures as low as to 20 °F (-7 °C).



PROJECT: Tremco Incorporated, Beachwood, OH
PRODUCTS USED: VR Lite

TREMproof Dual Waterproofing System (DWS)–

Designed to withstand the most rigorous waterproofing conditions. This system can be used to waterproof plaza decks, terraces, backfilled walls, planters, split slabs, and vegetated roofs.

- Can be applied in as little as 24 hours following the removal of concrete forms.
- Can be applied to damp concrete reducing the delays associated with rain or other sources of moisture.
- Cold-applied application minimizes use of specialized equipment.

PLANTER APPLICATION

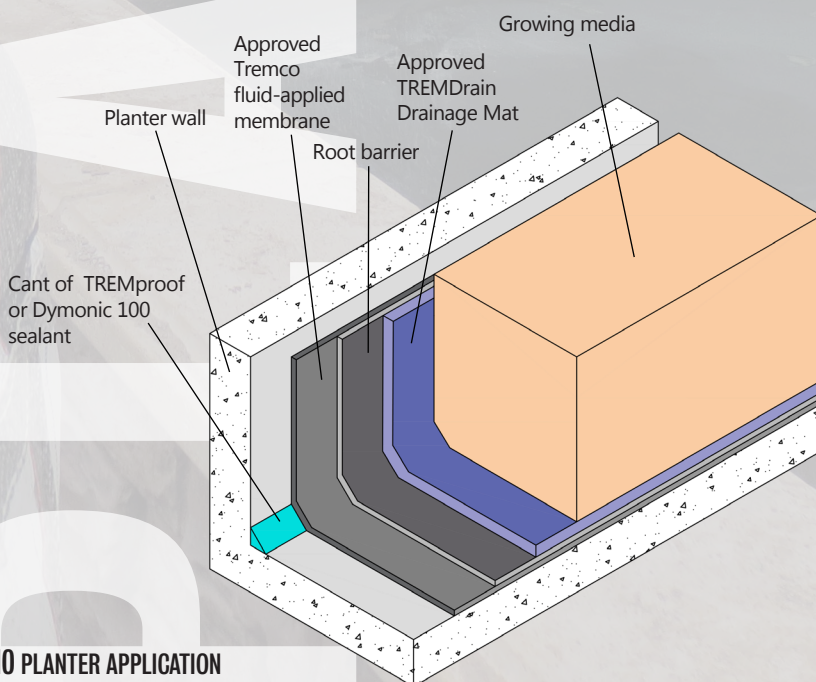
Properly waterproofing a planter is just as important as any other part of the structure. When waterproofing a planter, the waterproofing membrane should be protected from possible damage during backfilling and garden maintenance. Fluid-applied membranes are particularly attractive for this type of application because they allow no part of the planter to be left untreated or exposed to moisture penetration, even in areas of complex detailing. The waterproofing system for planter applications should include TREMDrain drainage components to enhance the performance of the overall waterproofing system.

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PROJECT: La Brea Gateway, West Hollywood, CA
PRODUCTS USED: Paraseal® GM/LG 60 mil

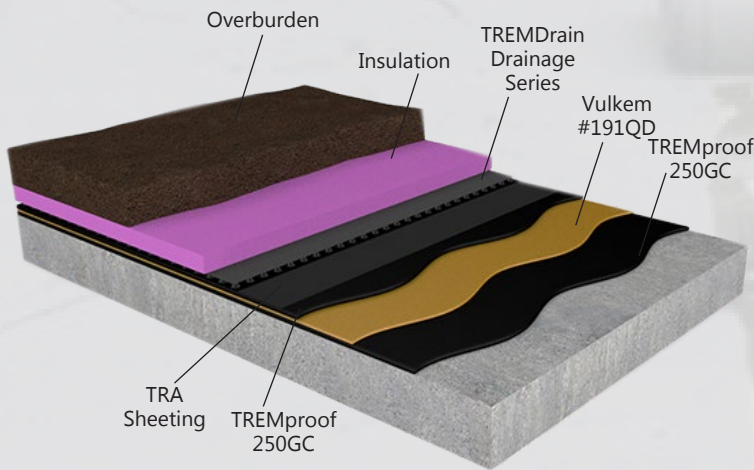
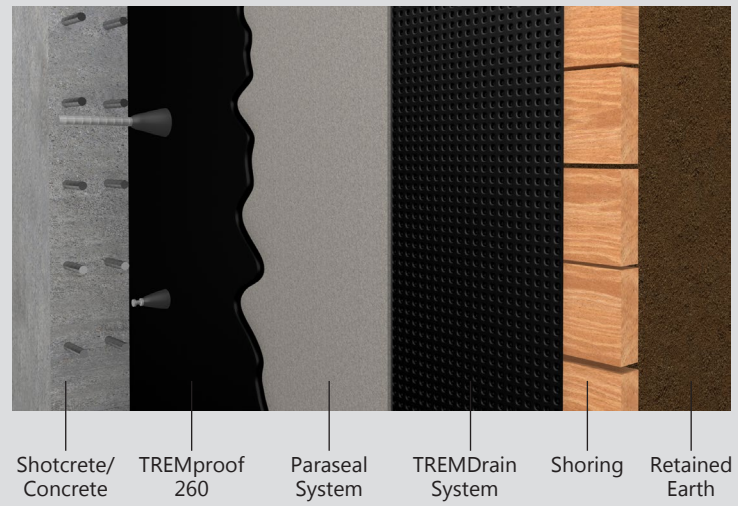
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- Can be applied at temperatures as low as to 20 °F (-7 °C).

HYBRID WATERPROOFING SYSTEMS

TREMproof® Dual Waterproofing System (DWS): A dual-membrane waterproofing system comprised of TREMproof TRA sheeting embedded into TREMproof 250GC. This unique waterproofing system is designed to have tenacious adhesion, long-term durability, and remarkable chemical stability. The elastomeric properties of the system's components enable the complete assembly to withstand the most demanding waterproofing needs.

TREMproof® TWS: A blindside and under-slab, triple-layer waterproofing assembly consisting of 20 mils of HDPE, expandable granular bentonite and a protective layer of spun-bonded polyester, coated with 60 dry mils of polymer-enhanced, liquid-applied asphalt membrane.



TREMproof Dual Waterproofing System (DWS) –

Designed to withstand the most rigorous waterproofing conditions. This system can be used to waterproof plaza decks, terraces, backfilled walls, planters, split slabs, and vegetated roofs.

- Can be applied in as little as 24 hours following the removal of concrete forms.
- Can be applied to damp concrete reducing the delays associated with rain or other sources of moisture.
- Cold-applied application minimizes use of specialized equipment.

TREMproof Triple Waterproofing System (TWS) –

This durable waterproofing system creates a physical bond to the concrete that eliminates the possibility of lateral water movement between the membrane and the structure. TWS provides superior defense against inclement weather conditions, preventing bentonite hydration prior to concrete placement.

- Protected bentonite allows for longer exposure to weather and construction elements.
- Monolithic asphaltic membrane protects seams and seals penetrations reducing time required for detail work.
- Exothermic reaction during concrete cure builds adhesion of the asphaltic membrane to the structure, creating a bonded waterproofing assembly, eliminating the potential for lateral water movement.
- Extreme durability with exceptional elongation and crack-bridging characteristics.

PROJECT: One Queen Street East, Toronto, Ontario
PRODUCTS USED: TREMproof Dual Waterproofing System (DWS)



DRAINAGE SYSTEMS

Drainage components, when incorporated, enhance the performance of the overall waterproofing system and reduce the amount of hydrostatic pressure and weight of water-saturated soil. Prefabricated drainage is engineered to create air space when applied over a membrane.

Tremco's TREMDrain series of prefabricated drainage boards consists of a dimpled core which provides excellent water flow when under compaction. TREMDrain can be used for vertical and horizontal applications.

TREMDrain products are offered with a variety of combinations of filter fabrics, drainage cores, an optional protective polymeric film and a TotalDrain System to replace perforated pipe/aggregate collection systems. Tremco's TREMDrain series of drainage mats are compatible with TREMproof and Paraseal membranes.



PROJECT: Chanhassen High School, Chanhassen, MN
PRODUCTS USED: TREMDrain® 1000

TREMDrain – A two-layer drainage mat that consists of a polystyrene core and a spun-bonded polypropylene fabric.

TREMDrain 1000 – This two-layer drainage mat consists of a polystyrene core and spun-bonded polypropylene fabric. It is available with or without the polymeric film attached to the back of the drainage core and offers great compressive strength.

TREMDrain 2000 – A three-layer drainage mat that consists of a woven polypropylene fabric, polystyrene core and polymeric film. The woven fabric has great puncture resistance making it ideal for horizontal applications where concrete will be poured on top of the drainage mat.

TREMDrain 3000 – This two-part prefabricated drainage material and protection board consists of a formed polystyrene core covered on one side with a woven polypropylene filter fabric. This fabric allows water to pass into the drainage core while restricting the movement of soil particles. The plastic core provides compressive strength and moderate flow capacity.

TREMDrain S – This drainage mat consists of a spun-bonded polypropylene fabric, polystyrene core and polymeric film backing. It has the highest compressive strength available within the TREMDrain Series.

TREMDrain GS – A drainage mat consisting of a perforated polystyrene core with fabrics attached to both sides. Installed with the dimples down, the core also functions as a water retention layer.

TREMDrain 6000 – A multi-composite prefabricated drainage material and protection board consisting of a formed polypropylene core covered on one side with a high-strength, spun-bonded polypropylene filter fabric. The fabric allows water to pass into the drainage core while filtering out extremely fine particulates.

TREMDrain 6600 – This multi-composite prefabricated drainage material and protection board consists of a formed polypropylene core covered on one side with a high strength, non-woven needle-punched polypropylene filter fabric that is heat bonded to the core.

TREMDrain QSP – This three-part prefabricated drainage panel and protection board consists of a formed, perforated polystyrene core covered on a dimpled side with a non-woven, needle-punched polypropylene filter fabric along with a breathable cross-hatched fabric on the backside.

TREMDrain Total Drain – A two-layer drainage mat with a unique polystyrene core that consists of a high-profile drainage section for water collection and flow around the structure and a transition section to connect to other TREMDrain Series drainage mats.

CONNECTIONS: THE KEY TO LONG-TERM SUCCESS

A SINGLE SOURCE FOR A SUPERIOR SOLUTION

Tremco provides comprehensive waterproofing solutions, including effective terminations and connectivity to above-grade conditions. Waterproofing and gas mitigation protects the integrity of a structure and its occupants by forming a barrier that prevents water and gas from entering the building envelope and occupied space. In order to eliminate potential sources of water and/or gas infiltration there must be continuity, without areas of weakness such as at transitions. Connections must be able to accommodate any normal movement of the building structure. Of critical importance is any incompatibility between the membrane and any connecting components which may result in membrane failure and ultimately lead to water infiltration.

Tremco Commercial Sealants & Waterproofing offers sustainable building solutions from below-grade to the roof.

Products are formulated and tested to ensure performance over the long term not only in lab settings but under real world conditions where they may abut, adjoin or overlap with other components or systems.



WATERPROOFING AND DRAINAGE SELECTION GUIDE*

TREMproof®

Paraseal®

TREMDrain®

	Vertical				Horizontal				Others		
	Backfilled Wall (<20)	Backfilled Wall (>20)	Blindside/Lagging Wall (<20)	Blindside/Lagging Wall (>20)	Split-Slab or Paver	Below-Slab-on-Grade	Vegetated Roofs	Planters	Methane Barrier**	Submerged Conditions**	Green/Damp Concrete
FLUID											
TREMproof 250GC	•	•			•		•	•	•	•	•
TREMproof 201/60	•	•			•						
TREMproof 260	•								•		•
TREMproof 6100					•		•	•		•	
TREMproof PUMA					•		•	•			
SHEET											
Paraseal	•	•									•
Paraseal LG	•	•	•	•		•					•
Paraseal GM									•		•
Paraseal GM/LG 20 mil			•	•		•			•	•	•
Paraseal GM/LG 60 mil			•	•		•			•	•	•
TREMproof 545	•	•									•
TREMproof 560	•	•									•
DRAINAGE											
TREMDrain	•		•								•
TREMDrain S					•	•					•
TREMDrain 1000		•		•							•
TREMDrain 1000PF		•		•	•						•
TREMDrain 2000					•			•			•
TREMDrain Total Drain	•	•	•	•							•
TREMDrain QSP	•	•									

* The Waterproofing and Drainage Selection Guide is to be used as a general reference and reflects two of the components that become integrated into a waterproofing system.

Please consult your local Tremco Manufacturer's Representative for regional recommendations based on your local building practices and warranty requirements.

** Please consult your local Tremco Manufacturer's Representative for recommendations and approval of your specific application.

Reference the current product data sheet on our website at www.tremcosealants.com for more specific product information.

For priming recommendations, please contact Tremco Technical Services or reference the Primer Guide on our web site.





WATERPROOFING DESIGNED FOR PROTECTION & DURABILITY



LEADER **TESTED** **SINCE 1928**
CONNECTIONS **WARRANTED** **CUSTOM SOLUTIONS** **PROBLEM SOLVERS** **SUSTAINABLE**
LEADER **TRUSTED PARTNER** **CUSTOM SOLUTIONS** **BUILDING SCIENCE** **SINCE 1928** **TRUSTED PARTNER** **TESTED** **BUILDING SCIENCE** **SINCE 1928**
PROVEN PERFORMANCE **TECHNICAL SERVICE**
TECHNICAL SERVICE **SYSTEMS** **CUSTOM SOLUTIONS** **SITE SUPPORT** **COMPATIBLE**
INTEGRATED DESIGN **CUSTOM SOLUTIONS** **LEADER**
SOLUTIONS
SINGLE -SOURCE **CONNECTIONS** **INNOVATIVE** **COMPATIBLE**
RESTORATION
RELIABLE **SINCE 1928** **PROBLEM SOLVERS**
PROVEN EXPERIENCE **PERFORMANCE** **CONNECTIONS**
TRUSTED LEADER **RESTORATION**
PARTNER **SINCE 1928** **RELIABLE**
CONNECTIONS **BUILDING ENVELOPE**
CUSTOM SOLUTIONS **SITE SUPPORT** **TESTED**
SUSTAINABLE **EXPERIENCE**
RESTORATION **WARRANTED** **SITE SUPPORT**
SINCE 1928 **COMPATIBLE**
CUSTOM SOLUTIONS **TRUSTED PARTNER** **PROVEN PERFORMANCE**
TECHNICAL SERVICE **INTEGRATED DESIGN**
TESTED **SINCE 1928** **SYSTEMS**
INNOVATIVE **SINGLE-SOURCE** **PROVEN PERFORMANCE**

TREMCO®

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