

### System Description

TREMproof® Triple Waterproofing System (TWS) is 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. 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.

Paraseal® LG is a sheet waterproofing membrane consisting of 20 mils of HDPE, expandable granular bentonite and a protective layer of spun-bonded polyester for non-submerged conditions.

Paraseal® GM/LG (20 mil) is a sheet waterproofing and methane-mitigating membrane consisting of 20 mils of HDPE, expandable granular bentonite and a protective layer of spun-bonded polyester for submerged conditions\*.

TREMproof® 260 is a polymer-enhanced, co-sprayed asphalt emulsion, below-grade waterproofing membrane.

\*Also available with 60 mil HDPE. Please consult your local Tremco Sales Representative for more information.

### Basic Uses

- Blindside walls (Cast-in-place and shotcrete)
- Under-slab/below slab on grade
- Hydrostatic conditions\*

\*Consult Tremco Technical Services for more information.

### Features & Benefits

- Innovative triple-layer waterproofing assembly, tested per ASTM standards
  - 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
  - Compatible with approved TREMproof, ExoAir and TREMDrain solutions for a continuous building envelope
  - Comprehensive on-site technical support and product knowledge expertise
  - VOC compliant
  - Premium waterproofing system backed by an all-inclusive warranty\*
- \*Consult with your local Tremco Sales Representative for more information.

### Availability

TREMproof TWS is immediately available from your local Tremco Sales Representative, Tremco Distributor or Tremco Warehouse.

### Packaging

Paraseal Systems 4' x 24' (1.2 M x 7.3 M) rolls, 20 rolls/pallet  
TREMproof 260 SP 55-gal (208-L) drum containing (52 gal (197 L) of TREMproof 260), 4 drums/pallet  
TREMproof 260 SP 330-Gallon (1,249-L) tote, 1 tote/pallet  
TREMproof 260 R 5-gallon (19-L) pail, 36 pails/pallet

### Limitations

- Limit UV exposure to a maximum of 30 days.
- Do not let the product freeze prior to being applied to the substrate. It is best to store TREMproof 260 off the floor at an ambient temperature above 50 °F (10 °C). Opened drums should be tightly sealed before storage.
- When applying TREMproof 260 below 40 °F (4 °C), contact your local Tremco Sales Representative or Tremco Technical Services.
- TREMproof 260 is not for use with potable water.
- Protect Paraseal systems from moisture. Store on a skid or pallet and cover with polyethylene or tarp. Do not double stack pallets. Prevent hydration of bentonite until the sheet is installed and under recommended compaction.
- Paraseal products require a minimum of 24 psf of compaction/confinement in order to function as designed.
- Paraseal systems are not to be installed over ponding or standing water or snow.
- If ground water is brackish, please contact your local Tremco Sales Representative four weeks prior to a pending application and provide a water and/or soil sample for testing purposes in order to determine the correct bentonite formula for your project's application.
- Paraseal LG is not for use in submerged conditions.
- Use of Paraseal GM/LG - 20 mil submerged conditions require prior approval from Tremco.

### Warranty

Tremco warrants its Products to be free of defects in materials but makes no warranty as to appearance or color. Since methods of application and on-site conditions are beyond our control and can affect performance, Tremco makes no other warranty, expressed or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE with respect to Tremco Products. Tremco's sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of Tremco Products proven to be defective, and Tremco shall not be liable for any loss or damage.

Please refer to our website at [www.tremcosealants.com](http://www.tremcosealants.com) for the most up-to-date Product Data Sheets.

NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS) requirements.

**PARASEAL LG  
TYPICAL PHYSICAL PROPERTIES**

<b>PROPERTY</b>	<b>DESCRIPTION</b>
Color (Bentonite/HDPE)	Gray/Black
Installation Temperatures	-25 to 130 °F (-31.7 to 54.4 °C)
Freeze/Thaw Cycles	No effect before or after installation
Resistance to Chemicals & Gases	Extremely high resistance. Contact Tremco for specific information.
Life Expectancy	Indefinite

<b>PROPERTY</b>	<b>TEST METHOD</b>	<b>VALUES US</b>	<b>VALUES SI</b>
Elongation	ASTM D412 Type 4 Dumbbell	700%	
Strength at Break	ASTM D412	4,000 lb/in <sup>2</sup>	281.22 kg/cm <sup>2</sup>
Strength at Break	ASTM D6693, Type IV	80 lb/in	14.28 kg/cm
Resistance to Micro-organisms (bacteria, fungi, mold, yeast)	ASTM D4068	Unaffected	
Index Puncture Resistance	ASTM D4833	36.67 lb/ft	54.57 kg/M
Resistance to Hydrostatic Head Pressure	ASTM D5385	231' of H <sub>2</sub> O	
Hydrostatic Resistance	ASTM D5385	>100+ psi (>231 ft/H <sub>2</sub> O)	
Permeance	ASTM E96	0.029 US Perms	1.7 ng/Pa·s·m <sup>2</sup>
Puncture Resistance (load)	ASTM E154	155 lbf	689.47 N

All data based on 20-mil HDPE

**PARASEAL GM/LG 20 MIL  
TYPICAL PHYSICAL PROPERTIES**

<b>PROPERTY</b>	<b>DESCRIPTION</b>
Color (Bentonite/HDPE)	Gray/Black
Installation Temperatures	-25 to 130 °F (-31.7 to 54.4 °C)
Freeze/Thaw Cycles	No effect before or after installation
Resistance to Chemicals & Gases	Extremely high resistance. Contact Tremco for specific information.
Life Expectancy	Indefinite

<b>PROPERTY</b>	<b>TEST METHOD</b>	<b>VALUES US</b>	<b>VALUES SI</b>
Elongation	ASTM D412 Type 4 Dumbbell	700%	
Strength at Break	ASTM D412	4,000 lb/in <sup>2</sup>	281.22 kg/cm <sup>2</sup>
Strength at Break	ASTM D6693, Type IV	80 lb/in	14.28 kg/cm
Resistance to Micro-organisms (bacteria, fungi, mold, yeast)	ASTM D4068	Unaffected	
Index Puncture Resistance	ASTM D4833	36.67 lb/ft	54.57 kg/M
Resistance to Hydrostatic Head Pressure	ASTM D5385	231' of H <sub>2</sub> O	
Hydrostatic Resistance (with Para JT™ Tape)	ASTM D5385	>100 psi (>231 ft/H <sub>2</sub> O)	(>68.9 N/cm <sup>2</sup> ) (>70.4 M/H <sub>2</sub> O)
Permeance	ASTM E96	0.029 US Perms	1.7 ng/Pa·s·m <sup>2</sup>
Puncture Resistance (load)	ASTM E154	155 lbf	689.47 N

All data based on 20-mil HDPE

## TREMPROOF 260 TYPICAL PHYSICAL PROPERTIES

PROPERTY	DESCRIPTION	
Type	Polymer-Modified emulsion	
Color	Black	
Solids	64%	
Density	8.1 lb/gal	
Application	Sprayer/Roller	
Cure Time	16 to 24 hr at 75 °F (24 °C), 50% RH	
Thickness	Minimum 100 mils (wet), 60 mils (dry)	
PROPERTY	TEST METHOD	TYPICAL VALUES
Water Resistance	ASTM C836; AATC-127	Pass
Adhesion-in-Peel after Water Immersion (Unprimed)	ASTM C836; ASTM C 794	Exceeds
Low-Temp Flexibility	ASTM C836; ASTM C 836	Pass
Weight Loss 20% maximum Loss 80% Solids minimum	ASTM C836; ASTM C 1250	
Low Temperature Crack Bridging	ASTM C836; ASTM C1305	Pass**
Elongation	ASTM D412	800%
Peel Adhesion	ASTM D903	Passes
Extension after heat aging No observable cracking	ASTM C836; ASTM C1522	
Hardness, Type 00 50 Min.	ASTM C836; ASTM D 2240	Passes
Water Vapor Permeance	ASTM C836; ASTM E96 Dry Cup	0.09 US Perms
	ASTM C836; ASTM E96 Wet Cup	1.70 US Perms
	ASTM C836; ASTM E96 Inverted Wet Cup	
Maximum V.O.C.	Method 310	72 g/L
Shelf Life Stability 6 Months Minimum		
Application Temperature		Above 40 °F (5 °C) and rising. If installing below 40 °F (5 °C), please refer to additional application instructions in Cold Weather Technical Bulletin or contact Tremco Technical Service at 866-209-2404.
Storage Temperature		40 to 100 °F (5 to 37 °C)

**1119/TPTWSDS-BG**



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