

Saltwater Paraseal

**HDPE/BENTONITE SHEET MEMBRANE.
SALINE CONDITION DUAL
WATERPROOFING SYSTEM**

Key Benefits Summary

- Suitable for saline environment
- Easy application
- Rapid backfill allowable
- No primer
- Dual waterproofing system

PRODUCT INFORMATION

DESCRIPTION

Saltwater Paraseal is an elastomeric, sheet waterproofing membrane specially designed for waterproofing applications in areas where saline, alkaline, acid, etc. conditions exist. It is a composite sheet manufactured to controlled thicknesses of 3.75mm - 5mm composed of tough, high density polyethylene (HDPE) and polymer treated, expandable, quality granular bentonite. The specially treated Bentonite is laminated at a rate of up to one pound per square foot to an impermeable HDPE sheet forming a superior Dual Waterproofing System for application to horizontal and vertical surfaces.

BASIC USES

Saltwater Paraseal is used to waterproof structures above and below grade in saltwater conditions. It is excellent for use on split slabs, parking decks, poured and block foundations and vertical walls. It has outstanding performance when used under conditions of high water head and installed prior to concrete pour such as retaining walls, elevator pits, etc.

LIMITATIONS

Do not install over ponded water, snow or ice. Contact Tremco for approval whenever conditions of extreme salt brine, acid, alkali or otherwise contaminated conditions exist.

PACKAGING

1.2m x 7.3m standard rolls.

USAGE GUIDELINES

INSTALLATION

For complete details refer to the appropriate product installation manual.

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 6.4mm must be removed. Installation may proceed on uncured, damp or frozen surfaces. Saltwater Paraseal is compatible with all currently used release agents.

Vertical Walls:

Saltwater Paraseal rolls are installed vertically or horizontally with HDPE side facing the installer, by nailing across top, lapping edges 75mm and nailing vertical seam every 600mm with masonry nails. Apply Permanent Seam Tape to all seams. Pour a 38mm cove of specially treated Paragranular at intersection of wall and footing prior to Saltwater Paraseal installation. Compact fill to minimum 85% modified proctor.

Under Floor Slab (minimum thickness 76mm.)

With bentonite side up, roll out Saltwater Paraseal, overlap 75mm and install next roll. Staple together every 203mm. Protect from rain and pour concrete as quickly as possible after installation. With HDPE side up, roll out Saltwater Paraseal, lapping seams minimum 75mm. Staple every 600mm on center and tape all seams with Permanent Seam Tape or other specified tape. Pour 38mm covs of specially treated Paragranular around penetrations. Prior to concrete pour, inspect and patch any damaged areas.

Parking and Roof Decks:

Remove debris, lap edges 75mm minimum in shingle fashion working from lower to higher elevation. Staple at 600mm on center and tape all seams

Lagging:

Refer to Paraseal LG data sheet and lagging installation manual.

Protection:

The Saltwater Paraseal dual waterproofing system has a PUNCTURE RESISTANCE of 76.7Kg and does not require an additional protection course for most applications. For special applications, contact your Tremco Representative.

STORAGE

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

TREMCO PTY LTD ABN 25 000 024 064
Unit 1, 2 Park Rd, RYDALMERE NSW 2116 Australia
Tel: (02) 9638 2755 Fax: (02) 9638 2955
tremco@tremco.com.au

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*Above based on 20mil HDPE/Bentonite System.

USAGE GUIDELINES

Physical Properties	Value	Test Method
Colour: Grey/Black		
Pliability: 180° bend over 25mm mandrel @ -31.7°C	10,000	ASTM D146
Tensile Strength: Membrane (psi)	4,000 psi (27.6MPa)	ASTM D412
Resistance to micro organisms (bacteria, mould, fungi, yeast)	unaffected	
% Elongation-ultimate failure	700%	D638 Type
Dumbbell Puncture Resistance of membrane	76.7Kgs	ASTM E 154-88
Resistance to Hydrostatic head (Ft. (m) of water)	7.6m	Footnote #4
Resistance to water migration under membrane	7.5m head Footnote #1 zero leakage	
Water migration at or through joint	Instant seal/ no penetration	Footnote #5
Permeance ASTM E96-92	0.031 Grains/ hr*ft*in.Hg.	
Cycling over 38.1mm joint	Instant seal/ no penetration	Footnote #2
Cycling over 6.4mm crack	No deterioration	Footnote #3
Installation Temperatures	-31.7°C to 54.4°C	

Non toxic:

Freeze/thaw cycles: No effect before or after installation.

Non-staining:

Resistance to chemicals & gases: Extremely high resistance - contact manufacturer for specific information.

Life Expectancy: Both high density polyethylene and bentonite have life expectancy measurable in thousands of years.

FOOTNOTES FOR TECHNICAL DATA

1. A 25mm diameter hole was cut in the middle of a 89mm diameter sample of Paraseal. Sample clamped in 76mm diameter permeameter, 7.6m water head applied
2. Membrane placed between 2 clamps 38mm apart. Temperatures reduced to -31.7°C and clamps are pulled apart to 64mm. Cycle repeated between 38mm and 64mm 2000 times.
3. Membrane placed between 2 butting clamps. Clamps spread 10mm at -31.7°C. Cycle repeated 250 times.
4. Membrane applied to porous stone and placed in permeameter. Pressure increased to equivalent of 7.6m water head.
5. Test same as #4, only performed at joint.

TECHNICAL SERVICE

TREMCO has a team of qualified Technical Sales Representatives who provide assistance in the selection and specifications of products. For more detailed information or service and advice call Customer Service on (02) 9638 2755 or fax (02) 9638 2955.

GUARANTEE/WARRANTY

We warrant our products to be free of defects and manufactured to meet published physical properties when tested according to applicable specifications and TREMCO standards.

Under this warranty we will provide at no charge, product to replace any product proven to be defective when applied in accordance with our written instructions and in applications recommended by TREMCO as being suitable for this product.

All claims concerning product defects must be made within 12 months of shipment. Absence of such claims in writing during this period will contribute a waiver of all claims with respect to such product. This warranty is in lieu of any and all other warranties expressed or implied.

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