

Saltwater Paraseal

HDPE/Bentonite Sheet Membrane

Saline Condition Dual Waterproofing System

Specification Data

Product 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 150-200 mils composed of tough, high density polyethylene (HDPE) and polymer treated, expandable, quality granular Bentonite. The specially treated Bentonite is laminated at a rate of approximately 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 the concrete pour such as retaining walls, elevator pits, etc.

Limitations:

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

Packaging:

4' x 24' (1.2m x 7.3m) standard rolls.

Also available by SPECIAL ORDER:

- Larger size rolls may be customized for a nominal cutting charge.

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 1/4" (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 3" (7.6cm) and nailing vertical seam every 2' (0.6m) with masonry nails.

Apply Permanent Seam Tape to all seams. Pour 1-1/2" (3.8cm) 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 3" [7.6cm])

With bentonite side up, roll out Saltwater Paraseal, overlap 3" (7.6cm) and install next roll. Staple together every 8" (20.3cm). Protect from rain and pour concrete as quickly as possible after installation.

With HDPE side up, roll out Saltwater Paraseal, lapping seams minimum 3" (7.6cm). Staple every 2' (0.6cm) on center and tape all seams with Permanent Seam Tape or other specified tape. Pour 1-1/2" (3.8cm) coves of specially treated

Paragranular around penetrations. Prior to concrete pour, inspect and patch any damaged areas.

Parking and Roof Decks:

Remove debris, lap edges 3" (7.6cm) minimum in shingle fashion working from lower to higher elevation. Staple at 2' (0.6m) 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 169 lbs. (76.6kg)** and does not require an additional protection course for most applications. For special applications, contact your MAMECO Representative for details.

Storage:

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

AVAILABILITY

Immediately available from distributors worldwide.

WARRANTY

MAMECO warrants its Paraseal Membranes to be free of defects in any materials, but makes no warranty as to appearance and color. Since methods of application can affect performance, MAMECO makes no other warranty, express or implied, including warranties of MERCHANTABILITY and FITNESS FOR A PARTICULAR PURPOSE, with respect to Paraseal Membranes. MAMECO'S sole obligation shall be, at its option, to replace or to refund the purchase price of the quantity of Paraseal Membrane proved to be defective and MAMECO shall not be liable for any loss or damage including incidental or consequential damages arising from the use of Paraseal Membranes.

Physical Properties	Value	Test Method
Color: Gray/black		
Pliability: 180° bend over 1" (2.5cm) mandrel @ -25°F (-31.7°C)	10,000	ASTM D146
Tensile Strength: Membrane (psi)	4,000 psi (27.6MPa)	ASTM D412
Resistance to micro organisms (bacteria, fungi, mold, yeast)	unaffected	
% Elongation-ultimate failure of membrane:	700%	D638 Type 4 Dumbell
Puncture Resistance	169 lbs. (76.6kg)	ASTM E 154-88
Resistance to hydrostatic head [Ft. (m) of water]:	25 ft (7.6m)	Footnote #4
Resistance to water migration under membrane:	25 ft. (7.6m)/Head zero leakage	Footnote #1
Water migration at or through joint	Instant seal/ no penetration	Footnote #5
Permeance	0.031 Grains/hr*ft*in.Hg.	ASTM E96-92
Cycling over 1 1/2" (38.1mm) joint:	No deterioration 2000 cyc.	Footnote #2
Cycling over 1/4" (6.4mm) crack:	No deterioration 250 cyc.	Footnote #3
Installation Temperatures	-25°F to 130°F (-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 1" (2.5cm) diameter hole was cut in the middle of a 3 1/2" (8.9cm) diameter sample of Paraseal. Sample clamped in 3" (7.6cm) diameter permeameter, 25' (7.6m) water head applied.
2. Membrane placed between 2 clamps 1 1/2" (3.8cm) apart. Temperature reduced to -25°F (-31.7°C) and clamps are pulled apart to 2 1/2" (6.4cm). Cycle repeated between 1 1/2" (3.8cm) and 2 1/2" (6.4cm) 2000 times.
3. Membrane placed between 2 butting clamps. Clamps spread 3/8" (1cm) at -25°F (-31.7°C). Cycle repeated 250 times.
4. Membrane applied to porous stone and placed in permeameter. Pressure increased to equivalent of 25' (7.6m) water head.
5. Test same as #4 only performed at joint.

* Above based on 20 mil HDPE/Bentonite System

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