

Deckseal

TRANSPARENT HDPE/BENTONITE SHEET MEMBRANE WATERPROOFING SYSTEM

Key Benefits Summary

- High Swelling
- Forms an impermeable HDPE sheet
- Puncture Resistant

PRODUCT INFORMATION

DESCRIPTION

Deckseal is a dual-waterproofing membrane, 4.25mm - 5mm thick, composed of transparent, high density polyethylene (HDPE) and Bentonite. The Bentonite is laminated at a rate of 4.9Kg per square metre to an impermeable HDPE sheet forming a superior Dual Waterproofing System for application to horizontal and vertical surfaces. Deckseal's unique, transparent HDPE layer allows for thermal and dimensional stability while the membrane is exposed during installation.

BASIC USES

Deckseal is used to seal horizontal or vertical surfaces against penetration of water. It is excellent for use whenever the membrane is to be covered by earth, concrete or pavers. Unsurpassed for all weather installation to irregular or uncured substrates. Various uses include parking decks, plazas and tunnels where flood testing is desired. Also applicable for ponds, lakes and reservoirs.

LIMITATIONS

Do not install over ponded water, snow or ice. Deckseal must have a min. 20 psf confinement.

PACKAGING

1.22m x 7.32m 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, frost, moisture and honeycombs (less than 6.35mm deep) may be present. All debris must be removed. Standing water and sharp protrusions over 6.35mm must be removed. Deckseal is compatible with all currently used release agents and may be installed over uncured concrete.

Deck or Plaza:

Sweep the complete detail work around penetrations, drains and

elevation changes. Install Deckseal membrane with seams shingled starting from lowest points. Wipe seam area and install Permanent Seam Tape. Compress taped joint area of Deckseal sheets using roller with 10psi capacity. Allow overlap of 38mm to 76mm depending on size of Deckseal sheet and slope of deck.

Flood Testing:

This material may be flood tested after installation upon written authorisation by factory approved inspector or representative.

Protection:

The Deckseal dual waterproofing system has a PUNCTURE RESISTANCE of 43Kgs. 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.

TECHNICAL INFORMATION

Physical Properties	Value	Test Method
Low temperature flexibility:	-73°C	
Pliability: 180° bend over 2.5cm mandrel @ -31.7°C:	No Deterioration 10,000cyc	ASTM D146
Tensile Strength: Membrane (psi)	4,000 psi (27.6MPa)	ASTM D412
% Elongation-ultimate failure of membrane:	700%	D638 Type 4 Dumbell
Puncture Resistance:	43Kgs	ASTM E 154-88
Resistance to water migration under membranes:	45.72m/head zero leakages	Footnote #1
Permeance	0.031 Grain/hr*ft*in. Hg.	ASTM E96-92
Cycling over 6.35mm crack (20mil, 40mil, 60mil):	No deterioration 250cyc	Footnote # 2
Installation Temps	-9.4oC - 48.9oC	
Freeze/thaw cycles:	No effect before or after installation	
Life expectancy:	Both high density polyethylene and Bentonite have life expectancy in the thousands-of-years.	

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FOOTNOTES FOR TECHNICAL DATA

1. A 25.4mm diameter hole was cut in the middle of a 88.9mm diameter sample of Deckseal. Sample clamped in 76.2mm diameter perimeter, 45.72m water head applied.
2. Membrane placed between 2 butting clamps. Clamps spread 9.5mm at -32°C. Cycle repeated 250 times.

HEALTH AND SAFETY PRECAUTIONS

Material Safety Data Sheet must be read and understood before use.

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.