

MAXIPRUF[®] PLUS

HIGH PERFORMANCE WATERPROOF MEMBRANE

TECHNICAL
DATA

DESCRIPTION

MAXIPRUF[®] PLUS is a composite pre-applied waterproof membrane utilizing the very latest PREMCRETE APAN[™] technology which produces an enhanced active bond to fresh concrete to become an internal part of the structure to which it has been applied. The active pre-applied nano seal technology provides a secondary waterproof element for unique hybrid protection. The self-healing nature of the membrane secures the integrity of the waterproofing system, substantially reducing the risk of failure. The membrane is a lightweight yet robust composition which provides ease of installation. The applied membrane will effectively resist hydrostatic water pressure conforming to BS 8102:2022 as a Type A barrier membrane.

USES

MAXIPRUF[®] PLUS is used as a pre-applied structural waterproofing and damp-proof membrane to provide an effective barrier to water for the lifetime of the structure to which it has been applied. Applications include, the waterproofing of substructures, such as basement constructions, lift pits, tunnels, culverts and swimming pools.

COMPLIANCE

MAXIPRUF[®] PLUS is certified BDA and is UKCA Certified.



| Property | Test Method | Value |
|--------------------------------|--------------------|--|
| Weight | DIN EN 1849-2 | 530g/m ² |
| Thickness | DIN EN 1849-2 | 3mm |
| Maximum Tensile | DIN EN ISO 12311-2 | MD: 600N - 5cm CD: 1100 N- 5cm |
| Elongation at Break | DIN EN ISO 12311-2 | MD: 90% CD: 80% |
| Tear Resistance | DIN EN 12310-1 | MD: 560N CD: 515N |
| Water Tightness | DIN EN 1928 B | PASS |
| Peel Adhesion | M.O.A.T 64:2001 | 6.8N(50mm) ⁻¹ |
| Resistance to Static Loading | EN 12730:2015 | PASS |
| Resistance to Impact | DIN EN 12691 | PASS |
| Water Vapour Transmission Rate | EN1931:2001 | 8.25 x 10 ⁻⁹ kg / m ² /sec ⁻⁹ |

ADVANTAGES

- Lightweight but robust membrane, provides an ease of handling on site
- Unique APAN[™] technology forms strong adhesion to concrete
- Self-healing in the event of a puncture.
- No jointing tapes required



www.premcrete.com | 02380 276166 | sales@premcrete.com

44 Macadam Way, West Portway, Andover, Hampshire SP10 3XW

Structural Waterproofing | Gas Protection | Ground Heave Protection | Concrete Repair | Technical Grouts | Joint Sealants | Protective Coatings | Admixtures

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PROCEDURE

Surface Preparation: The substrate should be well compacted hard-core or blinded with lean-mix concrete with surface free from excessive undulation or sharp projections which may puncture the membrane. Irregularities in the surface should be repaired with a suitable PREMCRETE repair mortar. If the membrane is to be installed to concrete foundation piles, then the piles should be prepared removing all loose soil and ensuring that the concrete is relatively flat. The surface should be prepared so that there are no voids which the membrane would have to span as this would render the active element of the membrane ineffective. The membrane must be fully encapsulated against a consistent surface for maximum performance.

Application to vertical surfaces: MAXIPRUFE PLUS should be pre-applied to the inside face of the shuttering to be subsequently filled with concrete. The sheets should be installed with the textile in contact with the freshly placed concrete and lined vertically ensuring that all lap joints face away from the concrete pour. Adjacent sheets of membrane should be lapped by 100mm. PREMCRETE METAL WASHER FIXING should be used along the lap joints at 500mm centres to secure the membrane in place prior to pouring the concrete should be used to secure the membrane. Once the concrete has hardened the shutter may be removed and the **MAXIPRUFE PLUS** will remain adhered to the concrete. MAXIPRUFE PLUS should not be installed above the final ground level.

If the **MAXIPRUFE PLUS** is to be applied to foundation piles they should be cleaned and free from excessive surface irregularities. The membrane should be cut tight around the protruding element and then a 50mm x50mm corner fillet of TWINSEAL COMPOUND should be applied at the corner junction to prevent water ingress between the pile and the membrane.

Application to Horizontal Surfaces: MAXIPRUFE PLUS should be laid with the textile facing the installer and in direct contact with concrete. Adjacent sheets should be lapped by a minimum of 100mm, and the lap joint should be staggered by 300mm to avoid 4 sheets lapping at one location. Joints should be secured using Metal Washer Fixings and shot-fired at 500mm centres and continuous line reinforcement spacers should be laid along the length of the lap to prevent fresh concrete displacing the joint.

Service penetrations and pipe should be sealed using a 50mm x 50mm fillet of TWINSEAL COMPOUND, around the circumference of the penetration to ensure the integrity of the joint. TWINSEAL COMPOUND may also be used assist with detailing of difficult junctions.

Interfaces: MAXIPRUFE PLUS will frequently lap onto alternative waterproofing coatings and membranes. The relevant lap details should be followed as specified on Premcrete Technical Details.



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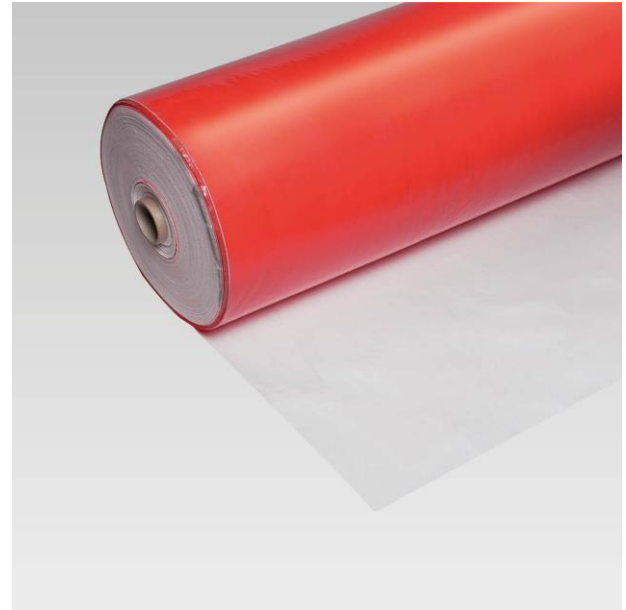
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HOT WEATHER INSTALLATION GUIDANCE

MAXIPRUF[®] PLUS comprises of a polyethylene membrane which is bonded to a fleece which incorporates the PREMCRETE APAN[™] technology. This membrane is designed to be mechanically fixed through as the fleece is self-healing in nature therefore mechanical fixings may be made through the membrane in any location that is appropriate, however, specifically, it should be made along the length of the lap joint to ensure adjacent sheets are locked together.

If the membrane is installed to concrete blinding, then Premcrete Metal Washer fixings should be used at 500mm centres, or if on clay heave-board then the membrane should be stapled at the lap joint using Premcrete Heavy Duty Staple Gun. Fixings should be made a maximum of 200mm centres and reinforcement spacer blocks should be laid along the length of the lap joint to assist with holding the membrane in position.



PACKAGING & COVERAGE

Pack Size: Roll size is 1.9m x 26.5m

Weight: 53kg

Pallet Quantity: 9 Rolls

STORAGE & SHELF LIFE

MAXIPRUF[®] PLUS should be stored in cool dry, frost-free conditions away from direct sunlight.

HEALTH & SAFETY

See separate Material Safety Data Sheet.



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