

Description

Xeric GRM is a high-performance self-adhesive waterproofing and gas resistant membrane. Constructed from a polymer modified bitumen compound and incorporating an aluminium carrier film, Xeric GRM will provide a continuous waterproofing/ tanking system for basements and substructures. Xeric GRM should be used in conjunction with Xeric Prime to ensure a suitable bond.

Advantages:

- Cold applied.
- Factory controlled thickness.
- Methane, CO₂ and radon resistant.
- Flexible.
- Resistant to ground water sulphates and chlorides.
- Suitable for waterproofing basements grades 2, 3 and 4 as defined in BS 8102:1990 'Protection of structures against water from the ground'.

Application:

- Foundations.
- Basements.
- Subways.
- Horizontal and vertical use.

Design Criteria:

Where methane is present, a comprehensive site survey needs to be carried out and the building constructed accordingly. Refer to Building Research Establishment Report 212 for further information. Xeric GRM should be laid in accordance with the provisions of BS 8102:1990. All wall/floor intersections and internal/external angles should be reinforced with 300 mm wide strips of Xeric GRM membrane. Where possible, a 25mm chamfer should be provided to all external angles prior to the application of the reinforcing strip. Where Xeric GRM is being used as a floor DPM there should be continuity with wall DPCs and other DPMs used in the structure. Xeric GRM should be protected using Proteq boards before covering with back-fill or concrete.

Application Instructions

Surface Preparations:

All concrete surfaces must be a wood float or shutter finish and free from cavities or projections. All surfaces must be clean, dry and free from contamination, ice and frost.

Priming:

Vertical and suspended slab surfaces shall be primed with Xeric Prime. Ensure complete coverage and allow to dry. Only prime an area to which the Xeric GRM can be applied the same day. Very porous surfaces may require more than one coat of primer.

Angle and Corner Details:

Use Xeric Fillet strips at all wall to floor junctions. All internal and external angles should be reinforced with a 300mm wide strip of Xeric GRM. Where possible, a 25mm chamfer should be provided to external angles.

Application:

Application temperature range 5°C to 35°C. For vertical application cut the Xeric GRM to length allowing 150 mm for the end laps and position by peeling back the release paper and applying the self-adhesive face to the prepared surface. Start at the top of the wall and work down by progressively removing the release paper in stages. Xeric GRM should be applied to ensure that all end laps are weathered. In cold weather temporary batten support of the Xeric GRM membrane is recommended. Horizontal application: Completely unroll the Xeric GRM membrane and place against a chalk line. One half of the roll should then be rolled up to the mid-point, the release paper carefully cut without damaging the Xeric GRM membrane and progressively removed from the mid-point out to the end of the roll. This process should be repeated on the other half of the roll. The Xeric GRM membrane should be brushed onto the surface to ensure good bonding. The next roll or length is aligned against the previously applied piece allowing for the 50mm minimum (or as specified) edge laps and 150 mm end laps and applied as stated previously. The edge and end laps should be rolled to ensure complete adhesion and continuity between the layers.

Penetrations:

Penetrations e.g. pipe entries through the Xeric GRM membrane require special attention to detail.

Protection:

Xeric GRM membrane should be protected from physical damage and weathering as soon as possible after application. Surfaces should be protected from damage by Proteq Protection Board. Xeric GRM can also be covered with Xeric Filtra Drain to give both protection and a drainage layer.

Typical Properties:

Membrane Thickness	1.2mm
Methane Gas Resistance	<0.03g/m ² /day
Radon Diffusion Coefficient	NRPB-m ² /5 5.0 10-14
Adhesion to primed concrete	5.8N/mm
Tensile strength (ATSM D638)	
Longitudinal	292N/50mm
Transverse	321N/50mm
Elongation (ATSM D638)	
Longitudinal	43%
Transverse	23%
Puncture Resistance	262N
Hydrostatic Head resistance	100m (ASTM D5385-93)
Colour	Black
Weight	25kg

Supply:

Xeric GRM 20m² rolls.

GRM 300mm Reinforcing Strip 20m rolls

Storage:

Xeric GRM should be stored upright avoiding direct sunlight at a temperature between 5°C and 40°C.