

Radon Membrane Data Sheet



The Cordek Radon Membrane is a high performance gas membrane, for use in applications where resistance to radon gas is required as part of either a 'full' or 'basic' radon protection system.

For 'basic' radon protection the use of the Cordek Radon Membrane covering the entire footprint of the building, used in conjunction with the relevant accessories and system components should be sufficient. However if there is the requirement to provide 'full' radon protection, the additional use of a radon sump (please see Cordek Radon Sump data sheet) may be required – please contact the Cordek technical team for further assistance.

The Cordek Radon Membrane is generally used within construction applications, predominantly within the foundation design. It can also act as a high performance DPM.

Key Features

- Economical method of providing radon protection to newly constructed buildings
- Provides additional damp proofing protection to the structure; no requirement for a separate DPM
- Robust membrane with a high resistance to damage and puncturing
- Complies with relevant industry codes and guidance including BR 211.

Installation

In line with industry good practice, it is recommended that the Cordek Radon Membrane is jointed using conventional thermal (hot air/wedge) welding equipment or the Cordek jointing tape system, to provide adequate protection against radon gas and moisture ingress.

All laps and junctions within the membrane should be overlapped by a minimum of 150mm. Any penetrations within the membrane should be effectively sealed using the appropriate accessories and recommended details – please contact the Cordek technical team for further advice.

For further information on the full range of VOC & Ground Gas Protection, please contact the Cordek technical team on 01403 799600, techsupport@cordek.com or consult our website at www.cordek.com.

The membrane should be installed upon a suitably prepared, well compacted, level surface consisting of either a sand or concrete blinding of a minimum 50mm depth.

Protection & Repair

Following installation, the Cordek Radon Membrane should be inspected for defects, holes, blisters, un-dispersed raw materials, and any sign of contamination by foreign matter prior to covering. The surface of the membrane should be clean at the time of inspection and free from debris.

Following installation of the membrane, the installer and specifier should assess the requirement for additional protection prior to the positioning of reinforcement and pouring of concrete upon it. If additional protection is required, then the Cordek Correx protection system should be used directly above the membrane.

If the membrane is damaged, it should be repaired by means of patching. Pinholes and small holes should also be repaired by patching. The patch should be made of the same barrier membrane and should extend at least 150mm outside the damaged area in order to ensure that the damaged area is covered completely. The patch should be prepared and either welded using a hot air gun or the Cordek jointing tape system to the main section of membrane.



Product Data

		Cordek Radon Gas Barrier
Physical	Colour	Black
	Thickness	0.4mm
	Tensile Strength	N ¹ /50mm MD 9.9 N/mm ² XD 9.9 N/mm ²
	Elongation	% MD 500 XD 500
Conformance section	Accreditation	In process
Performance	Temperature Range	°C -40 to +70
	Gas Permeability - Radon	7.2 x 10 ⁻¹² m ² /s
	Installation	Cordek double sided jointing tape
Logistics	Sizes	4 x 20m
	Roll Weight	kg 31
	Pallet Quantity	rolls 40

Storage & Handling

Care should be taken when moving, transporting or handling to avoid damage, puncturing or tearing which can affect the performance of the membrane.

The membrane should be stored undercover so as to be protected from puncture, dirt, grease, moisture, sunlight and excessive heat. Damaged material should be quarantined and stored separately for repair or replacement. The rolls shall be stored on a prepared smooth dry surface (or fully boarded wooden pallets; note that

slatted pallets with sharp corners will damage the rolls) and stacked no more than two rolls high. The bottom rolls need to be chocked to prevent them from rolling.

Storage between 5°C and 30°C at 40-65% humidity under non-condensing conditions is recommended.

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