



Gas Resistant DPC



Radbar Gas Resistant damp proof course is an engineered tri-polymer that has been developed to give excellent mechanical properties while maintaining outstanding resistance to Radon, Carbon Dioxide and Methane gases as well as water vapour. Thanks to the product's design it will provide a highly effective barrier for the lifetime of the building.

The prominent key on the DPC creates superior mortar adhesion which is essential when being used in 3+ storey applications. Radbar Gas Resistant DPC is compliant to BS EN 14909:2012 and can be used in both vertical and horizontal applications. This product also carries a BBA certificate 15/5251 which shows the DPC is made to the highest standard.

As part of the extensive testing Radbar Gas Resistant DPC has undergone, it was subjected to accelerated life immersion tests. These tests, EN 14414 and EN 14415, require the membrane to be subjected to a range of challenge chemicals at 50°C and then retested to establish any affects these chemicals have had on the integrity of the membrane. Full results can be found on the technical data sheet.

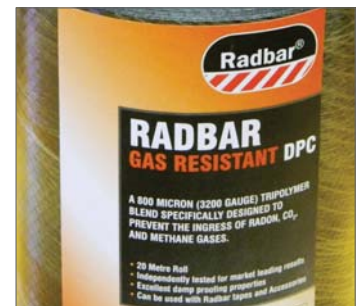
Physical Properties:

Physical Description	Value
Thickness	800 Micron
Density	0.925 g/cm ³
Colour	Black
Length	20M
Width	100-1200mm



Advantages

- Outstanding water vapour resistance
- Excellent resistance to Radon, CO₂ and Methane gases
- Very high puncture and tear resistance
- Superior mortar adhesion
- Part of the Radbar Amber 2 System
- Full range of accessories available
- BBA Certificate No. 15/5251
- Suitable for use in sites with characteristic gas situations 2 and 3
- Suitable for welding



Storage, handling and protection on site

Radbar Gas Resistant DPC is classified as non-hazardous (code of practice CP101 1973). The membrane is chemically inert and will not react with any acidic or alkaline environment it is laid in. It is not recommended that the DPC is exposed to sunlight for long periods of time. Weathering will not occur when installed, if being stored for a lengthy period the rolls should be stored undercover and out of direct sunlight on a flat level surface.



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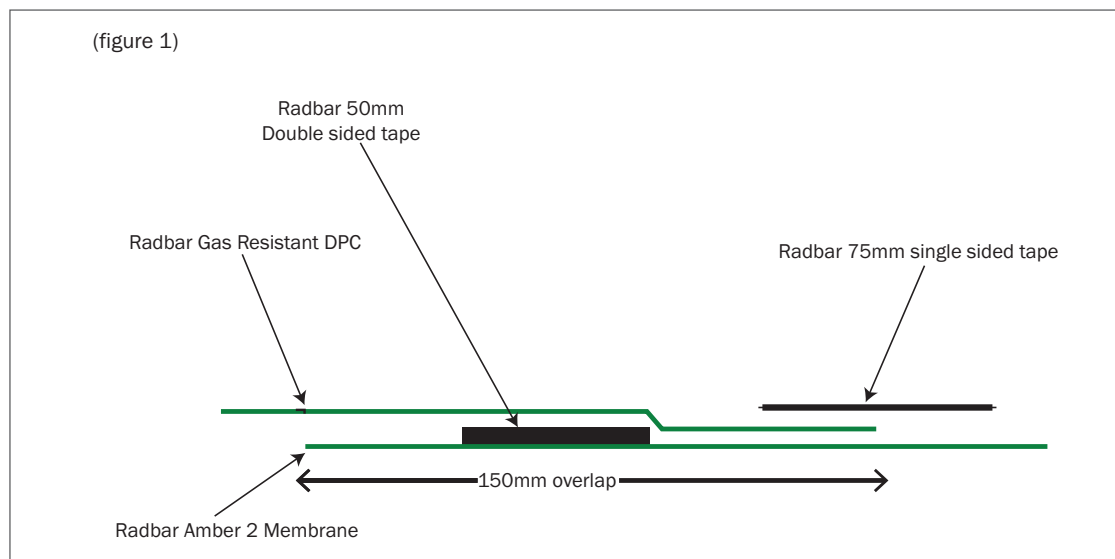
Installation

Radbar Gas Resistant DPC must be installed in accordance with the guidelines laid out in BS 8215:1991, BS 8000:part 3 and BS 5628. It can be used in most common floor constructions and is installed in a similar manor to standard damp proof membrane. For external walls the DPC should be applied 150mm above the adjoining surface and should be linked to a damp proof membrane or gas barrier in solid floors. The DPC should be applied to a fresh bed of mortar, completely free of projections that may puncture the material or impede the DPC from lying flat.

Jointing of Radbar Gas Resistant DPC

Sheets must be clean and free from dirt and grease before application of Radbar double sided gas tape, and in view of the difficulty of achieving gas tight seals under wet or dirty conditions it is recommended that special care is taken with this aspect of the installation. Unroll one width of the membrane after determining the most effective method of covering the area. Apply the Radbar double sided gas tape about 50mm from the edge, leaving the backing paper on. Lay the next width of membrane overlapping the first by 150mm. Remove the backing paper from the Radbar double sided gas tape and join the top sheet to the bottom sheet by applying pressure with a hand roller. Where the membranes overlap apply the 75mm single sided tape, equidistant on both membranes. See figure 1.

All service entry points must have airtight seals. Top hats and corner pre-forms must be sealed using Radbar Double sided gas tape. As an alternative to using jointing tapes the DPC can be welded providing this is done to a high standard by trained installers.



Radbar Amber 2 System Components and Accessories

When used in conjunction with other products in the range Radbar Gas Resistant DPC is part of a highly effective complete system to prevent the ingress of Radon, CO₂ and Methane gases. These products include but are not limited too:

- Radbar Double sided joint tape
- Radbar Single sided joint tape
- Radbar top hats (110&160mm)
- Radbar Amber 2 gas barrier
- Radbar Internal/External corners



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