

# HYDROPRUFE 300R

## Radon Membrane

### DESCRIPTION

Hydroprufe 300R is manufactured from a blend of polymer films that is suitable for use in the protection of buildings from the ingress of radon gas. Hydroprufe 300R also acts as a damp proof membrane but is not intended for use where there is a risk of hydrostatic pressure. Hydroprufe 300R can be used in most common floor constructions. It is installed in a similar way to a damp proof membrane, but with much greater attention paid to workmanship and detailing in order to achieve effective sealing at all locations.

### USES

Hydroprufe 300R is designed to protect structures and occupants from gases that may be existent in the ground conditions, on low to medium risk characteristic sites. It is laid beneath concrete to act as a gas-resistant membrane whilst also acting as an effective damp proof membrane to prevent the ingress of water.

### ADVANTAGES

- Rapid and easy installation by semi-skilled operatives
- Simple application to most substrates.
- Minimal surface preparation prior to installation.
- High compressive loading stability

Property	Value
Tear resistance (MOT 27: 1983 5.4.1)	118N
Guage	400mu
Radon Permeability (K124/02/95)	$0.2 \times 10^{-11} \text{ m}^2 \cdot \text{s}^{-1}$
Permeation Rate of CO <sub>2</sub> cm <sup>3</sup> (STP).mm/m <sup>2</sup> .d.atm	151 cm <sup>3</sup>

### PROCEDURE

**Surface Preparation:** When applied beneath poured concrete slabs the sub-base should be well compacted and blinded with sand to prevent the membrane being punctured by any sharp protrusions. If the membrane is to be applied to the top face of a concrete slab, then the concrete should be smooth without any excessive surface undulations. If necessary, the substrate should be repaired using a suitable Premcrete concrete repair product.

**Application:** The Hydroprufe 300R should be loose laid to the prepared area without puncturing the membrane, taking care to leave sufficient length to lap into any DPC detail. Adjacent sheets should be lapped by a minimum of 150 mm and sealed using HCR Butyl Tape. Any pipe penetrations or other slab penetrations should be sealed using a Hydroprufe Top-hat or other pre-formed sealing piece, and the relevant tapes to ensure complete continuity of the gas-resistant system.



Product code: 05002R Revision date: 29/08/23

## PACKAGING & COVERAGE

### Roll Size:

**Hydroprufe 300R** - 4x20m

**HCR Butyl Tape** – 30mmx30m

**HCR Girth Tape** – 75mmx50m

## STORAGE & SHELF LIFE

Store in dry conditions at temperatures between 10°C and 25°C. Do not expose to freezing conditions.