

atal Flexi Hydrocarbon GX Membrane

BBA Certified as Radbar Flexible Hydrocarbon Membrane Cert No. 17/5422

DESCRIPTION

Atal Radbar Hydrocarbon Geomembrane is a high quality, high density polyethylene (HDPE) produced from specially formulated, proprietary virgin polyethylene resin designed specifically for flexible geomembrane applications.

Atal Radbar Hydrocarbon Geomembrane has outstanding chemical resistance, mechanical properties, environmental stress crack resistance, dimensional stability and thermal ageing characteristics. The membrane

also has excellent resistance to UV radiation and is suitable for exposed conditions.

PHYSICAL PROPERTIES

Physical Description Value/Units

Thickness 1mm, 1.5mm and 2.0mm

Density 0.94g/cm³(min)

Colour Black

Standard roll width 6/2.95m

The membrane is available in standard roll sizes of 6m x 50m or 2.95m x 30m. Several denominations of these sizes are available.

TECHNICAL PERFORMANCE

- Property 1mm 1.5mm
- Hydrocarbon permeability: 2.0x10⁻⁶ml/cm³.s
- Elongation at break: 700% 700%
- Puncture resistance: 320N 480N
- Tear resistance 125N 187N

ADVANTAGES

- Suitable for use on hydrocarbon contaminated sites
- Excellent resistance to chemicals and UV radiation
- Excellent weld characteristics
- Can be taped (Consult technical department)
- Very high resistance to puncture and tear
- Low permeability to hydrocarbon gases
- Available 6m wide (Consult separate data sheet)
- Compatible with vented systems
- All sundries available



INSTALLATION

Although the membrane is a very robust material, it is advised that it should be laid on a blinded or smooth surface allowing adequate overlap for jointing between the sheets and avoiding bridging i.e. areas of unsupported membrane. A final floor covering should be installed above it and care should be taken to ensure the membrane is not damaged prior to this. Inspect for damage and repair tears/holes with a piece of membrane sealed down with double sided tape and secured down with lap tape. Seal onto gas resistant DPC to maintain integrity. In certain applications, where the membrane is to be installed above a suspended in-situ concrete slab or block and beam suspended floor, the sealing of laps can be achieved using the Radbar Jointstrip system. In these instances, Jointstrip should be applied approximately 50mm from the edge. The next width of Atal Radbar Hydrocarbon Geomembrane should then be overlapped. For effective protection, all laps must be a minimum of 150mm and the joint should be secured with gas resistant Girth Jointing Tape, a single sided tape which provides added security against any potential leakage paths and protects the joint from peeling at the time of concrete pour. Always ensure that the membrane is clean, dust free and dry at the time of jointing. Atal Radbar Hydrocarbon Geomembrane and ancillary components must be installed in accordance with the recommendations of Building Research establishment BRE 414 "Protective measures for housing on gas contaminated land", Ciria Report 149 "Protecting development from methane", together with codes of practice CP102 and BUS 8102.

To avoid slip or shear planes, it is not recommended to take membranes through the wall. In order to provide a continuous barrier across the cavity, gas resistant DPC should be sealed to the membrane, taken through the blockwork, up the wall and incorporated below the damp proof course on the outer leaf.

Gas resistant DPC should be installed in accordance with
BUS 8215: 1991, BUS 8000: Part 3, 1989 and BUS
5628:

Part 3: 1985. All horizontal DPC's must be bedded on both
sides with fresh mortar. All DPC's must project
through the full width of the wall, including any externally
applied rendering and project 5mm beyond the finished
external face.