

MONARFLEX RAC Membrane

Technical Data Sheet

Features

MONARFLEX RAC Membrane is developed specifically for installation on contaminated ground to prevent gases from entering the structure. A well protected aluminium foil serves as an efficient gas barrier and the reinforcement ensures that traffic on the membranes will not lead to puncture. The composition of the membrane with 6 independent layers makes it a perfect gas barrier for projects with rough conditions where the membrane will be exposed to heavy traffic from equipment during installation. Concrete can be poured directly into the membrane.

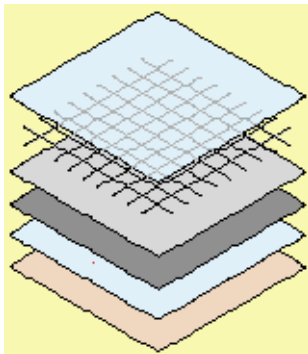
Durability

MONARFLEX RAC Membrane is a specially designed membrane with multiple layers of blown virgin polyethylene (LDPE) film, a reinforced polyester scrim and a 12 micron aluminium layer laminated together by several coater layers to form a tough and durable gas membrane. The membrane consists of 6 layers in total ensuring a gas tight membrane with high mechanical properties. The special composition and properties of each layer of the product make a tight and effective barrier to prevent gas from entering houses and buildings to constitute and health hazard for the inhabitants.

Application

Installation of a gas barrier must only be carried out by professionals. For welding of the gas membrane on site, Monarflex recommends the Monarflex extrusion welding machine.

Available Sizes	Roll Weight	
2.00m x 25m	42 kg	
2.00m x 50m	85 kg	
2.00m x 100m	190 kg	
Gross Weight	800g/m ²	
Thickness	0.8 mm	
Tensile Strength	MD: >800N/50mm CD: >800N/50mm	EN12311-1
Thermal Stability	-40°C to +75°C	
Tear Strength	MD: >600N CD: >600N	EN 12310-1
Methane Gas Transmission	<0.005 cm ³ /hm ² atm	



- Top Layer** LDPE with stabilizers, Grey
- Reinforcement** 12x12mm Polyester multifilament 1670 dtex
- Coater Layer** LDPE with stabilizers
- Aluminium** 12 micron Aluminium layer
- Coater Layer** LDPE with stabilizers
- Bottom Layer** LDPE with stabilizers, Grey