





# MONARFLEX® Reflex Super

## – the flexible gas barrier



### Four good reasons to choose MONARFLEX® Reflex Super:

-  A reliable solution for contaminated ground
-  Reinforced for better strength
-  Flexible and easy to install
-  MONARFLEX® Gas System – a reliable solution

*MONARFLEX® Gas membranes  
– the reliable choice*

# Technical data

Available sizes	2 x 25M
	2 x 50M
Net weight	440 g/m <sup>2</sup>
Thickness	400 µm
Roll weight	2 x 25M – 22 kg
	2 x 50M – 44 kg
Tensile strength	>11 kN/m
Thermal stability	-40°C to +75°C
Methane gas transmission	<0,005 cm <sup>3</sup> /hm <sup>2</sup> atm

## Composition of the Reflex Super gas membrane:

MONARFLEX® Reflex Super is a specially designed gas membrane composed by several layers of blown virgin polyethylene (LDPE) film, a reinforced polyester scrim and a 12 microns aluminium layer. The different layers are all laminated together to form a gas membrane with high mechanical properties.

The special composition and properties of each layer of the product form a tight and effective barrier to prevent gas from entering houses and buildings to constitute a health hazard for the inhabitants.

## Gas contamination

The most commonly occurring gases for which protection is required are: methane, carbon dioxide (CO<sub>2</sub>) and radon. Accumulation of gases in buildings can reach dangerous concentrations and constitute a health hazard with danger of explosions. High concentrations of gases are usually found on ground previously utilised for industrial processes ex. chemical factories and on former landfill areas.

## Solution

The easiest precaution to avoid high concentrations in buildings is the installation of a gas control system. To prevent the gas from entering the house, a high performance gas membrane must be installed across the whole footprint of the building. The mechanical barrier must be strong and reinforced to avoid puncture from stones.

## MONARFLEX® Reflex Super

MONARFLEX® Reflex Super membrane has been developed specifically for installation on contaminated ground to prevent gasses from entering the house. The aluminium foil is well protected by the polyethylene and serves as an efficient gas barrier. The reinforcement scrim adds strength and good mechanical properties to the membrane. The thickness and flexibility of the Reflex Super membrane is an advantage for installation in deep cavities or in projects involving a lot of angles, bending or folding.

A broad accessory range with pre-pressed Top Hats for sealing of pipes and other penetrations, double-sided butyl tapes etc. forms a dependable gas system.

## Installation

Installation of a gas barrier must only be carried out by professionals. For welding of the gas membranes on site, Monarflex recommends the Monarflex extrusion welding machine. Please contact us for further details

## Test standards

MONARFLEX® Reflex Super membrane is tested and conforms to:

- British standard – BS 5750 Part 2
- European Norm – EN 29002



Please visit [www.monarflex.com](http://www.monarflex.com) for further information