

Giscolene EPDM Membranes

New generation membranes
for outstanding waterproofing
performance



Proudly distributed by



Combining Australian expertise with the world's best technology

Introducing a waterproofing membrane with superior elongation properties

When compared with other waterproofing materials such as liquid and standard rubber membranes, EPDM is far more superior because of its unique ability to withstand excessive movement as well as it being extremely UV, impact and chemical resistant.

EPDM membranes are also highly capable of withstanding extreme temperature fluctuations and unlike other rubber membranes, will resist damage caused by acidic soils.

Superior Performance

EPDM (ethylene propylene diene Monomer) is a superior rubber material whose principal components consist of the compounds ethylene and propylene. When a small amount of diene is added to these compounds, a strong flexible rubber matrix is formed.

The technology behind EPDM membranes was first developed over 40 years ago and it is now one of the most popular materials used to protect and waterproof a variety of structures.

It is available in non-vulcanised or vulcanised (fully cured and more wear and tear resistant) states.

Giscolene

Giscolene is a single ply, vulcanised EPDM membrane made from highly elastic synthetic rubber compounds which provide superior resistance to weathering, tearing, movement, impact and puncturing.

It is this superior elasticity and resistance to ozone and UV radiation in particular, which make Giscolene extremely suitable for both water sealing and water capture applications.

Giscolene contains thermoplastic film which has been laminated on both edges and sides of the membrane to facilitate convenient on-site application and joining through the use of heat. This single step process enables a quick and mess free application. Larger rolls for bigger projects are also available on request.

The membrane is used for a variety of waterproofing applications including:-

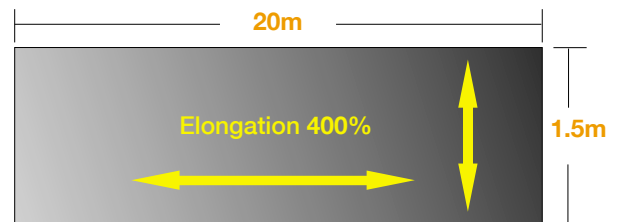
- Roofs and roof gardens
- Basements
- Podium decks
- Ponds (including tailings ponds on mining sites), and;
- water reservoirs.



Giscolene membranes offer easy on-site application and joining through the use of heat.

Key Advantages:

Superior elongation — With elongation and lengthening capabilities exceeding 400%, Giscolene can more easily stretch and conform to objects in the subgrade. This also makes the membrane much easier to install than many other standard rubber and EPDM membranes on the market today.



High flexibility — Giscolene is highly flexible even at extreme temperature variations (-40 deg Celcius to +130 deg Celcius), ensuring efficient installation and ongoing performance in a variety of climates and situations.

Superior resistance to weathering — Giscolene provides unparalleled resistance against UV light and ozone when compared to other rubber membranes.

Highly resistant to tearing and impact — With a tensile strength of 9MPa and excellent flexibility, Giscolene is highly resistant to tearing, puncturing and impact.

Superior water containment qualities — Because of Giscolene's ability to stop any vapour transmission through the membrane, it offers a fail safe lining for containing water. Note:- When installed on rooftops, provision for vapour vents (to allow the escape of vapour from air-conditioning units and the underlying substrate) is possible and highly recommended.

Versatile — Giscolene is suitable for all types of roofing, both ballasted and totally adhered, or with different mechanical anchorage options. It can also be used for basements, ponds, and water reservoirs in a variety of climates.



Gisolene's superior water containment and elongation properties make it ideal for conforming to, and containing water in ponds and water reservoirs.



Gisolene withstands the effects of extreme UV, ozone and weather exposure.

Quick and easy installation — Gisolene contains thermoplastic film which has been laminated on both edges and sides of the membrane to facilitate convenient on-site application and joining through the use of heat. This single step process enables a quick and mess free application.



Installation possible at very low temperatures — Unlike bitumen membranes which can crack, and liquid membranes which have difficulty curing at very low temperatures, the superior flexibility of Gisolene ensures that it can be applied successfully during very cold conditions.

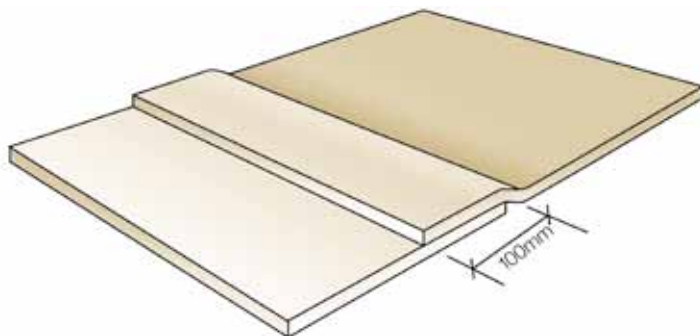
Convenient size packaging means less wastage — Gisolene membranes come in standard rolls of up to 20 metres in length (compared to the usual 18 metres of length) which means less wastage and better value for money. Special orders can also be placed for seamless rolls of up to 1000m² to enable faster installation over wider areas (such as large ponds and reservoirs).

Low maintenance — Once installed, Gisolene EPDM membranes require little to no maintenance and will last for well over 30 years, under normal environmental conditions.

Low profile to assist waterflow and aesthetics — The process of heat welding rather than taping seam joints, results in a lower profile join which improves water flow (ie: less chance of water gathering in channels) over the membrane. This flatter, neater profile is also more aesthetically pleasing and less likely to cause tripping — which is particularly important on highly visible and/or trafficable rooftops.

Environmentally friendly — Not only is Gisolene made from recycled rubber (which is firstly melted and then made into EPDM), but the manufacturing and installation process of EPDM rubber membranes has no adverse effects on the surrounding environment. The product can also be further recycled when necessary.

Gisolene Thermal System vs Adhesive Tape System



Higher profile on lap joint using tape and adhesive method.



Close up of the lower profile Gisolene Thermal Jointing System.



Giscolene is highly suitable for rooftop gardens and both trafficable and non-trafficable podium decks.

Performance Capabilities

ROOFING AND RESERVOIRS	
Elongation	> 400%
Tensile strength	> 9 MPa
Resistance to static loading	25 kg
Resistance to impact	h > 300 mm
Tear resistance	> 25 N
Tear resistance (nail shank)	> 100 N
Folding	< -30° C
Shear resistance of the joints	> 200 N / 50 mm
Peel resistance of the joints	> 25 N / 50 mm
Peel from the support at 90°C	> 25 N / 50 mm

All above tests were carried out in accordance with European EN Norm Standards. For more information please consult the technical data sheets.

giscosa®



In order to offer our customers the best waterproofing solutions for a number of applications, Applied Concrete Solutions (ACS) are now the exclusive distributor of Giscosa EPDM membranes in Australia.

Giscosa International was founded over 35 years ago in Spain and is now recognised as one of the world's leading manufacturer's of butyl and EPDM rubber waterproofing membranes.

Since the 1980's Giscosa have been affiliated with Firestone International (the world's largest manufacturer of rubber) and have specialised in the continuous advancement of EPDM waterproofing membranes for roofs, basements, podium decks, ponds and water reservoirs.

These EPDM membranes have been used in many commercial and industrial projects throughout the world including major hospitals, high rise buildings, large water reservoirs, sporting stadiums, airports, resorts, industrial buildings and mining operations.

Giscolene is manufactured in Spain, where they have some of the world's most advanced facilities for recycling rubber. The product is manufactured to ISO 9001, meets European Standard UNE 53.586 and is certified to BS6920 (UK) and AS4020 (Aust) for use with potable water in reservoirs.



Distributed by:



A Division of River Sands Pty Ltd
Head Office/Plant

683 Beenleigh-Redland Bay Rd,
 Carbrook Qld 4130

P 07 3287 6444

F 07 3287 6445

Toll Free (Australia wide) 1800 077 744

www.appliedconcretesolutions.com.au



CERTIFIED QUALITY
 MANAGEMENT SYSTEM
 ISO 9001

**Other Divisions of River
 Sands Pty Ltd.**

