

# Firestone

## GeoSmart EPDM



**GEOSMART**

Lining for life™



## The perfect fit for lining applications

**Firestone GeoSmart EPDM** is a synthetic rubber geomembrane specially designed to **waterproof small and mid-size ponds** with minimum time and effort.

GeoSmart EPDM membranes are available in wide panels of up to 36 m that allow installation without the need

for on-site seams. This guarantees a quick, easy and safe installation that is not affected by weather conditions and does not require specific tools.

**The system simplicity**, in combination with the exceptional properties of EPDM in terms of durability, elasticity,

flexibility and puncture resistance make GeoSmart EPDM the perfect fit for water containment applications such as agricultural ponds and pits and silage covers.

# Over a century of experience in rubber technology

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In 1903, Harvey S. Firestone founded the Firestone Tire & Rubber Company manufacturing tires for the first mass-produced automobiles in America. In the decades that followed, Firestone expanded to become a worldwide organization developing diversified rubber products.

Today, the Firestone brand is internationally known as a symbol of quality rubber products, innovation and leadership.

Firestone Building Products is part of the Bridgestone Corporation, the world's largest tire and rubber company.

**BRIDGESTONE** **Firestone**



# Outstanding performance

## One panel application

The wide panels of the GeoSmart EPDM membrane make it very easy to install, without the need to make any on-site seams. Basic installations do not require special tools or machinery and are independent from weather conditions.

## Durable

The chemical composition of the GeoSmart EPDM membrane makes it very resistant to UV, ozone, microorganisms and extreme weather conditions. It does not contain plasticizers or antioxidants that can migrate and cause its premature aging. GeoSmart EPDM retains its physical and mechanical properties over several decades and requires little or no maintenance.

## Flexible and elastic

The GeoSmart EPDM membrane is suitable for a wide range of substrates and can be elongated over 300% in all directions without cracking. This great flexibility allows it to perfectly match the shapes of the pond, adapt to the movements of the support and withstand high static puncture. The membrane remains flexible throughout its life, even at temperatures as low as -45 °C.

## Environmentally friendly

The exceptional durability of the GeoSmart EPDM membrane and its ease of repair significantly reduces its environmental impact. Chemically inert, it does not release pollutants into the air or in the water, making it safe for aquatic fauna and flora.

## High friction angle

Its rough structure facilitates the installation process and the eventual covers are more stable on the slopes. This also reduces the risk of accidents by slipping.





## Irrigation reservoirs

Firestone GeoSmart EPDM can be used in a variety of agricultural applications, such as irrigation reservoirs. The membrane does not release any chemicals into the water and has a life expectancy of several decades, regardless of whether the membrane is exposed or covered.





## Dung pits

Firestone GeoSmart EPDM provides an easy and cost-efficient solution to store animal slurry. Long-term watertightness is essential to protect the ground and water quality.

## Silage covers

The Firestone GeoSmart EPDM membrane provides an optimal solution for silage cover applications, protecting the feed from air and water intrusion while preserving its nutritional value. Its exceptional durability allows the same liner to be re-used for several years.







## Water containment

Besides agricultural applications, there are other water containment projects that require an efficient and reliable waterproofing membrane, such as stormwater reservoirs designed to reduce the risk of floods or fire reservoirs that keep water available for firefighting.

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## Waste water reservoirs

GeoSmart EPDM membranes have a wide range of chemical resistance and will protect the environment from potential pollution. Always contact your local Firestone representative to check the chemical compatibility of the EPDM liner.



## Product specifications

Firestone GeoSmart EPDM membranes are pre-assembled at the factory by means of strong vulcanized seams.

These factory seams are performed in standard conditions and are monitored via the factory production control. The

extremely wide panels are specifically produced for one-panel applications.



	Standard rolls	Tailor-made single sheets
<b>Thickness</b>	0.8 mm – 1.0 mm – 1.2 mm	0.8 mm – 1.0 mm – 1.2 mm
<b>Size</b>	<p>Width (m): 3 – 4.5 – 6 – 7.5 – 9 – 10.5 – 12 – 15 – 18 – 24 – 30 – 36</p> <p>Length (m): 30 – 45 – 60 &amp; 42 – 48 (for 0.8 mm silage cover applications)</p>	<p>Max. length 60 m</p> <p>Width multiples of 1.5 m (i.e. 18 m, 21 m, 46.5 m, etc.)</p>

*Note : Not all standard widths are available in all lengths and thicknesses. Maximum weight for tailor-made single sheets is 2000 kg.*

The technical properties of Firestone GeoSmart EPDM are described in detail on the Technical Information

Sheets (TIS) and Safety Data Sheets (SDS) that are available in [www.firestonebpe.com](http://www.firestonebpe.com)

## Product certification

The GeoSmart membrane is manufactured at Firestone Building Products' EPDM production facility in Terrassa (Spain), which has obtained the ISO 9001 and ISO 14001 certifications. The membrane bears the CE-marking and has also been tested and certified to various international

and national standards, such as the French ASQUAL certification (for the 1.2 mm membrane).

Within the context of these certifications, regular audits are conducted to verify the production process and quality control, as well

as the quality of the finished product. Consequently, Firestone Building Products can guarantee that its membranes are of a consistently high quality.