



FLEXGUARD EPDM

MCGUIRE FLEXGUARD EPDM

Our FlexGuard waterproofing membrane is made of ethylene propylene diene terpolymer (EPDM) and mixed with butyl rubber, vulcanizing agent, accelerator, softener and reinforcing agents, through mixing, filtering and extrusion. FlexGuard EPDM exhibits excellent tensile strength, and is resistant to expansion, cracking, and deformation, even in high or low temperatures. FlexGuard's relatively light weight means that it is easy to install, user-friendly, and can reduce roof load relative to competing products.

● PRODUCT STRUCTURE



- ← Anti-adhesive anti-stick layer
- ← Self-adhesive sealant Ethylene
- ← Propylene Rubber

● PRODUCT SPECIFICATION

Thickness/mil.	Width/ft.	Length/ft.
.45	5/10	50/100
.60	5/10	50/100
.80	5/10	50/100

● PRODUCT FEATURES

✔ High Tech material

FlexGuard is a highly elastic, waterproof, rolling material. The manufacturing process utilizes modern industrial techniques and chemical composition to create a durable, flexible, and user-friendly product for a variety of applications.



✔ Excellent physical properties

Flexguard is designed for both high and low temperature performance, allowing for a broad range of applications. It can last up to 50 years in underground environments, and more than 20 years in exposed environments.

✔ Tough and Durable

High elongation, high tensile strength, and can better adapt to base expansion or cracking deformation. Good chemical and corrosion resistance, acid and alkali resistance, making the product great for many special applications.

✔ Environmentally Sound

FlexGuard requires no bottom coating during construction, and is safe for the environment and for human contact.

● PRODUCT CATEGORIES

According to the composition of the product, it is divided into:

- Smooth-back (Category H)
- Fiber fleece-backed (Category L)
- Reinforced with polyester scrim (Category P)

● APPLICATION SCOPE

Suitable for all kinds of building roof, basement, tunnel and other building waterproof engineering; Waterproofing of roofing, underground works of civil and industrial buildings, reservoirs, municipal works, bridges, subways, tunnels, lake damns, and other works. It is especially suitable for key waterproof projects with high durability and corrosion resistance and easy installation. Multiple color options available.



● CONSTRUCTION METHOD

Base treatment: the base should be firm, smooth and clean. The corner of the base should be made into a circular area or triangle, and the radius of the circular area should be greater than 20mm/.75 inches. The temperature of the construction application should not be less than 5 °C/41° F, and the application should not take place under severe weather conditions.

- Bonding between the coil and the base: the bonding between the coil and the coil must be firm, with no cracks between drum, and layer.
- Coil and coil lap: long side lap is not less than 8cm/3 inch, short side lap is not less than 15cm/6 inch. The overlap joints of two adjacent coils of the same layer should not be smaller than 500mm/1.6 feet. Determine the laying position of the roll according to the direction of the roll, and pop up the base line of the roll with a pink line.
- Adhesive application: brush or lint free roller recommended. When coating adhesive, roll material and base layer are brushed evenly at the same time, until the adhesive table is dry. It can be compounded.

● IMPLEMENTATION STANDARDS

ITEM		VALUE	
		Vulcanized rubber JL1	Non-Vulcanized rubber JL1
Tensile strength/MPa	Normal temperature (23°C) ≥	7.5	4.0
Elongation at break %	Normal temperature (23°C) ≥	450	400
Tear strength/ (KN/m) ≥		25	18
Impermeability (0.3 MPa 30min)		Impermeable	Impermeable
Low temperature flexibility		-40°C) No crack	-30°C) No crack
Dimensional variation after heating / mm	Extension ≥	2	2
	Systolic ≥	4	4
Hot air ageing (80°C x 168h)	Fracture tensile strength retention / % ≥	80	80
	Keep rate tore elongation / % ≥	70	70
Alkaline [(10%Ca(OH) ₂ 23°C x 168h]	Fracture tensile strength retention / % ≥	80	60
	Keep rate tore elongation / % ≥	80	60
Ozone aging (40°C x 168h] 200 x 10 ⁻⁸		No crack	No crack
Artificial climate aging	Fracture tensile strength retention / % ≥	80	70
	Keep rate tore elongation / % ≥	70	70

