



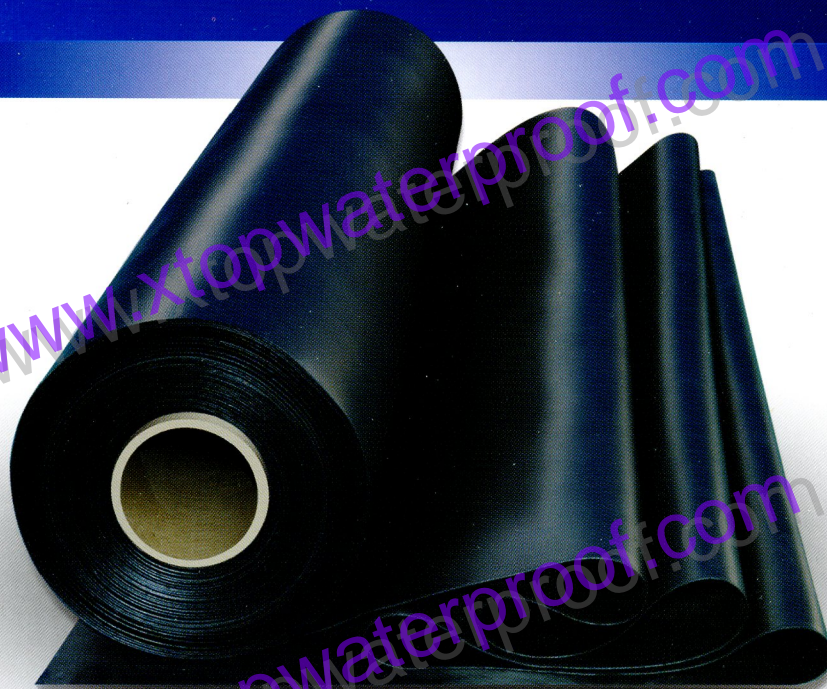
Authenticate





**Excald**™ 爱创  
EPDM waterproof Membrane

# EPDM



## Product instruction

This waterproof membrane is of high elasticity with best performance among high polymer waterproof material, it's made of ternary ethylene-pro-pylene rubber .It's use of the most advanced continues extrusion and vulcanization technology and related equipments which are specially designed for production of such product.

## Adaptation scope

Widely used in roofs, basement, toilet ,swimming pool, and all kinds of industry and civil building waterproofing, reservoir, vivicism, bridge, underground, tunnel and dam waterproofing ,especially to the keystone waterproofing projects which is durability, high corrosion resistance and easy deformation



## Product characteristic

- Excellent anti-aging performance, service life up to 50 years;
- High extension rate, high tensile strength, small size changes at heat treatment;
- Good plant roots penetrability resistance and can be made waterproofing layer of planting roof;
- Special modified molecular structure, effectively resolving the current domestic and foreign glue joint problem;
- Good low temperature flexibility, and good performance of adapting to ambient temperature changes;
- Convenient application, solid joint, no environment pollution;
- Chemical corrosion Resistance, can be used for special occasions;
- Convenient maintenance, low cost;
- Convenient for dealing with details;
- Good Anti-perforated;



Special modified molecular structure



Better use life



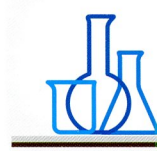
Root penetration resistance and weathering resistance



no environmental pollution



Good performance in anti-puncture



Chemical corrosion resistance

## Technical standard

[Execute standard GB18173.1-2006]

No.	Item	Unit	Technical requirement
1	Tolerance on size	Thickness	±10
		Width	±1
		Length	Does not allow negative
2	fracture tensile strength ( normal temperature )	Mpa	≥7.5
		Mpa	≥2.3
3	breaking elongation, (normal temperature)	%	≥450
		%	≥200
4	tearing resistance	kN/m	≥25
5	impermeability	*	0.3Mpa Impermeable
6	bending at low temperature	°C	≤-40
7	elongation and contraction volume at heating	elongation	≤2
		contraction	≤4
8	Hot air aging 80°CX168h	Fracture strength retention	≥80
		rate of elongation at break	≥70
9	Alkaline (Saturated Ca(OH) <sub>2</sub> solution normal temperature x168h)	Fracture strength retention	≥80
		rate of elongation at break	≥80
10	Ozone aging(40 degree by 168 hours)	Elongation 40%, 500X10 <sup>-2</sup>	*
11	Phytotron aging	Fracture strength retention	≥80
		rate of elongation at break	≥70



# Excaid™ 复创

## EPDM waterproof Membrane

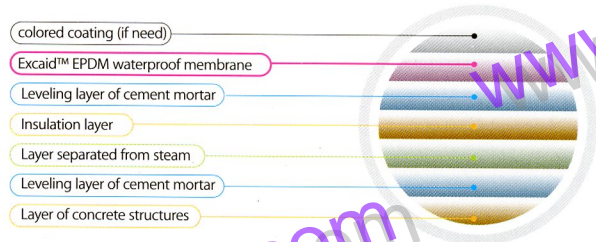
# EPDM

### Professional System

### EPDM Waterproof Membrane

EPDM waterproofing system is formed with EPDM rubber waterproof membrane, system accessories, system design, and construction. This system is advanced, after nearly 30 years domestic and foreign large-scale engineering projects showing: reliability. Including full adhesive, empty adhesive, Mechanical fixation waterproofing system and material of system accessories, joint design, construction technology, such as a full set of application technology. User can choose the best method of construction according to the design demand.

**Full adhesive:** Fully bonding the EPDM waterproof membrane on the substrate with the substrate adhesion agent, Adjacent membrane overlapping is not less than 10cm, with the special adhesive for joints overlapping to form a continuous membrane, closed waterproof layer, and then do flashing treatment for surrounding places and places with perforation in accordance with standard requirements



#### Construction Characteristics:

- Apply to any roof
- Materials with light weight
- Anti-wind loading capability

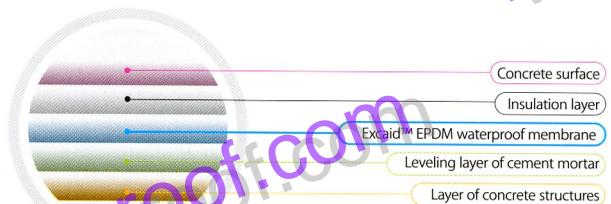
Full adhesive: smooth substrate—pressing—drying—coating substrate adhesives—spreading membrane and orientation—cleaning overlapping parts—coating overlapping glue—rolling overlapping parts—dealing with the details—finished

**Empty adhesive:** spreading the waterproof membrane on the substrate, overlapping part between the two membrane is not less than 10cm, with the special adhesive for joints overlapping, and then and then do flashing treatment for surrounding places and places with perforation in accordance with standard requirements

Empty adhesive: spreading membrane and orientation—cleaning overlapping parts—coating overlapping glue—rolling overlapping part—dealing with the details—finished

**Inversion method:** it's a application method of placing the insulation layer on the top of waterproof layer.

Empty adhesive and hysteron proteron can be applied to any underground and roof which bear heavy objects. commonly the roof gradient can't exceed 1:6.



#### Construction characteristics:

- applied to underground, walking roof, driving roof, planting roof.
- Low cost
- and fast application.

**Mechanical fixation:** it's a application method that fixing EPDM embmrane on the substrate with the metal pressure.

#### Application characteristics:

- Commonly applied to the top of substrate of woodiness, concrete, and metal.
- No impact from the climate.
- fast application

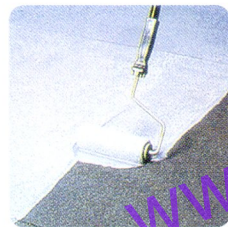


Mechanical fixation: spread membrane and orientation—mechanical fixation—clean the part of joint—coat overlapping glue—rolling overlapping part—dealing with the detail—finished



## System demand:

- Substrate treatment: substrate should be firm, smooth, clean, dryness (moisture content  $\leq 9\%$ ), no dust pollution. The corner part of substrate should be made into circular arc and triangle, the semidiameter of circular arc should be  $\geq 20\text{mm}$
- Roof drainage slope, separated joints and exhaust hole should be dealt with according to the designment.
- According to the specific situation of the project, can adopt the full adhesive, empty adhesive, inversion method, and Mechanical fixation.
- Membrane and substrate bonding: brush evenly glue on substrate and membrane needed bonding, and process the bond after the surface is dry.
- Bond of the overlapping part (overlapping width executes standard regulation): clean overlapping part of membrane with the cotton yarn which dipped the thinner before brushing the glue on the overlapping part, after the surface coated overlapping glue is dry (slightly sticky), bonding firmly and compacting the overlapping part, hit it tightly with the rubber hammer.
- Jointing part should be increased the additional layer as design requirements, additional layer can be membrane or polyurethane coating layer (add the mat if necessary)
- If needs to do the protective layer, according to the situation of the protective layer, normally should do the isolation layer. exposed membrane can be brushed the protective coating which can paly the role of heat reservation and insulation, and extend the service life.



## Attention Items

- Membrane and bonding material must comply with design, application and standard acceptance regulation. Checking product ex-factory certification, technical property index of test details, sampling in site and testing.
- Membrane waterproofing layer, deformation slot and pipe end of Pre-burying such as details must be checked and accepted by the Engineering, complex the design demand and construction and acceptance specification.
- The substrate of waterproofing layer should be firm and smooth. Negative and positive corner should be arc-shaped or an obtuse angle. surface is clean; brushing glue evenly, no leakage.
- Paving waterproof membrane layer structure and overlap, closing in is bonded firmly, no damage and bubble.
- For paved and bonded waterproofing layer, should strengthen protective measures, ensure no damage from the administer.

## Imperfect treatment of application

- Imperfect overlapping of membrane joints: joints overlapping form as well as long side and short side width is small, the bonding of joints part is not dense, bubbling, joint is damaged; operation should be according to the procedure and make standard line to comply with membrane specification. Paving along the stand line, membrane long side overlapping is not less than 100mm, short side overlapping is not less than 150mm
- Bubbling: substrate of paving membrane is wet, rough and unclean which easy lead to bubbling between membrane and substrate; if the air can't be discharged completely when paving membrane, which also can lead to bubbling between membrane. Substrate should be dry enough, can't have air between membrane and substrate. Not be suitable to apply if it is big wind. Because glue can be stained with dust, which can cause bubbling.
- Water leaks from corner: corner is difficult to operate, big area, pay attention to stubbling place as application, and protect stubbling membrane to make the
- overlapping to meet the regulated width.



# Excaid™ 艾创

## Chlorinated Polyethylene-Rubber Blending Waterproofing Membrae

[Execute standard GB 18173.1-2006]

No.	Item	Index
1	tensile strength MPa $\geq$	6.0
2	elongation at breaking % $\geq$	400
3	Fracture strength KN/m	24
4	water impermeability 0.3MPa 30min	impermeable
5	bending at low temperature $\leq -30^{\circ}\text{C}$	No crack

### Product instruction ●

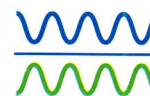
CR100



Chlorinated polyethylene-rubber blending waterproofing membrane is a sulfide-based synthetic polymer membrane, it makes the chlorinated polyethylene resin and synthetic rubber in the form of blends, and obtains a polymer "alloy" through the best types of blended rubber, the best blend proportion and blend course. This kind of "alloy" has excellent anti-aging properties and high strength of chlorinated polyethylene resin, as well as high elasticity of synthetic rubber and excellent low temperature resistance, the performance has been greatly improved than the original pure chlorinated polyethylene and the original synthetic rubber, reaching performance levels of high-grade waterproofing membrane.

### Characteristics

- Good aging resistance, acid and alkali resistance, corrosion resistance, service life can reach 25 years.
- Good flexibility and high tensile strength, good anti-cracking, adapt to the demands of substrate stretching or cracking deformation, can ensure the treatment of waterproofing building.
- Light weight, reduce the roof load.
- Applicable to a variety of buildings roof waterproofing and all kinds of underground projects waterproofing
- Membrane is an easy adhesive material, good bonding effects, and effectively ensure the integrity effects of membrane cold application.



good elasticity, good tensile performance

### Application requirement

- Substrate demands strong, smooth, clean and dry (Moisture content  $\leq 9\%$ ), the corner of substrate should be  $\geq 20\text{mm}$  radius of the arc. Roof drainage slope, separated joints should be dealt with according to the designment.
- Membrane paving method: full adhesive, strip adhesive, dot adhesive, empty adhesive.
- Overlapping part of membrane should be cleaned with the cotton yarn dipping solvent, overlapping part should be bonded firmly, and strike and planish the overlapping part by rubber hammer.
- Node part should be added Additional layers as the design demand, and the additional layer can be dealt with Polyurethane waterproof coating or waterproof membrane.



good anti-aging performance

### Attention Items

- Don't pave membrane in the day of rainy, snowy, foggy and windy.
- Generally, it can be applied when  $5-35^{\circ}\text{C}$ , the best application temperature is  $10-30^{\circ}\text{C}$ , relative humidity is less than 80%.
- If setting the equipment on the surface of waterproof membrane. Should do the additional layer on the part of basement, and be careful the waterproof layer not be damage.
- Agglomerant is easy to volatilize, pour it into a small vessel when use it, package barrel should be closed in time, and agglomerant should be shake up evenly when use it.
- Far away fire source, heat source when application

### packages and storage

- The waterproof membrane should be rolled by hard cardboard core, package bag as outside package
- Avoid direct sunlight in transportation and storage, don't touch with acid and alkali products. Storage pile height shall not be more than 50 sheets high
- The guarantee period of storage is 12 months, the products exceeding the guarantee period should be rechecked before using

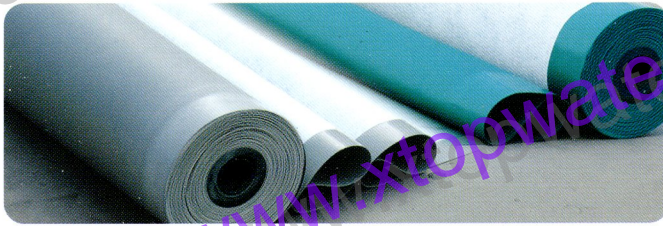


light quality



chemical corrosion resistance





[Execute standard GB12953-2003]

Category:

N: no compound layer

L: single fiber compound

W: fabric reinforced

## Product Summarize

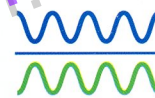
Excaid chlorinated polyethylene coloured polymer waterproof membrane is made of chlorinated polyethylene resin as main body, mixing proper Chemical Agents, A certain amount of filler materia lthrough batching ,banburying, plasticizing, calendering, inspection and packaging etc. which is processed into waterproof material, chlorinated polyethylene resin content is 35-40%, it is a plastic and flexible material and being famed "new rubber"

## Characteristic

- Excaid chlorinated polyethylene waterproof membrane has no pollution, good aging resistance, high intension, corrosion resistance,. Product main technical performance index has reached the domestic advanced level of similar products.
- Colorful, with waterproof and decoration function, also with the effect of heat insulation.
- Suitable for any kinds of building's roof, underground waterproofing.
- Membrane is an easy stained material, good bonding effects, and effectively ensure the integrity effects of membrane cold-bonded application

## Application requirement

- Substrate treatment: waterproof substrate demands strong, smooth, clean and dry (Moisture content ≤ 9%),
- The corner of the substrate should be made into circular arc (circular arc radius ≥ 20mm)
- Roofing paving: full adhesive, strip adhesive, drop adhesive, empty adhesive.
- Roof drainage slope, partition joints, escape hole should be dealt with as design requirements
- Node part should be increase additional layers as the design demands, and the additional layer can be dealt with Polyurethane waterproof coating or waterproof membrane.



high tensile strength



no environmental pollution



Colorful



chemical corrosion resistance

## Attention

- Don't apply membrane in the day of rainy, snowy, foggy and windy.
- To pave the waterproof membrane, should first deal with the special part, pre-making the additional layer, after finishing additional layer, then going along big area application
- Agglomerant is easy to volatilize, pouring with using when application, package barrel should be closed in time, if agglomerant has deposition, should shake up it evenly before using.

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