

# PMH 3040PLUS



## High Density Polyethylene (HDPE) Self-adhering Membrane Water- proofing Sheet

High density polyethylene (HDPE) self-adhering membrane waterproofing sheet, with a special high-density polyethylene membrane as the main waterproof layer, the main waterproof layer is provided with a polymer self-adhesive membrane, weather-resistant coating and isolation layer, a 80mm wide self-adhesive over-lap sheet is reserved on one side of the long side of the sheet, and an adhesive sheet is reserved on the lower surface of the other side. The construction range of the over-lap joint enhances the applicability of sheet construction. It can also achieve effective bonding in rainy, water, low temperature and other construction environments, so as to ensure the waterproof effect of the pre-applied anti-adhesive waterproofing system as a whole. The gapless combination of the waterproof layer and the concrete structure prevents the hidden danger of water spraying between layers and can effectively improve the reliability of the waterproof system.



# PLUS

# PACKAGING AND SPECIFICATION

## EXTERNAL PACKAGING:

The material curled to a cylinder and the external of the material packaged with suitable material.

LENGTH OF SHEET (M)

20

SHEET AREA (m<sup>2</sup>/ROLL)

24, 48  
or customization

WIDTH OF SHEET (M)

1.2、2.4

THICKNESS OF SHEET (MM)

1.2, 1.5, 1.7

Note: The standard thickness of the product are 1.2mm, 1.5mm. Other specifications can be customized according to project requirements. The area is related to the length and width of the sheet.

## TYPICAL PHYSICAL PROPERTIES

### ITEM

### STANDARD VALUE

Tensile properties

tensile force

≥600

tensile strength/MPa

≥16

Membrane elongation at break

≥400

Sheet and sheet peel strength (over lap edge) <sup>a)</sup> (N/mm)

≥0.8

Peel strength with post-pouring concrete/ (N/mm)

≥1.0

Note: Only applications for waterproofing membrane with self-adhesive side overlap type.

The product implements the requirements of GB-23457-2017 "Pre-applied waterproofing sheets".

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# SCOPE OF APPLICATION

**01**

Structural floor of the civil and industrial basement, underground structural flank-wall applied by external-protection & internal-stick method.

**03**

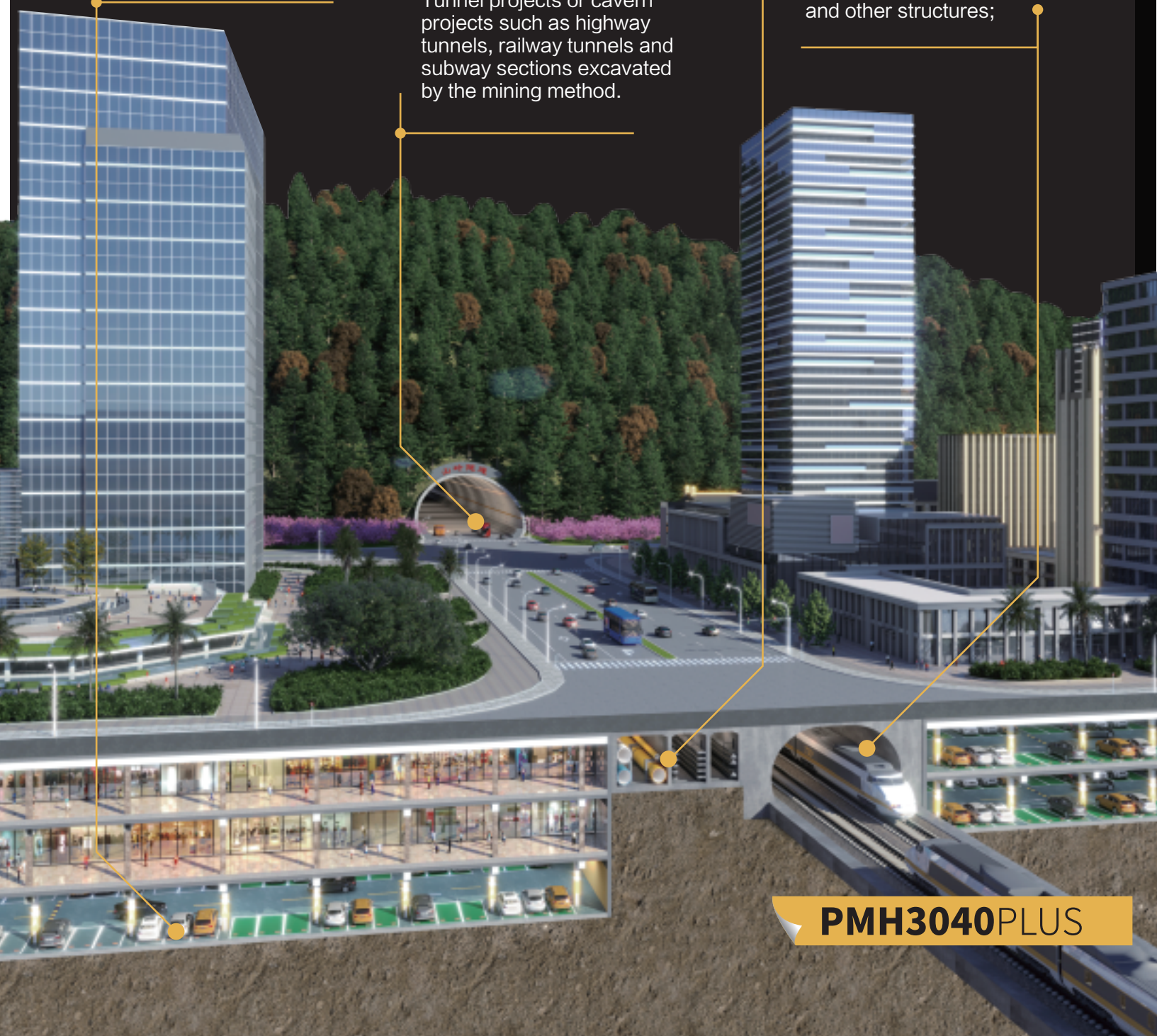
Underground water-proofing of nuclear island and non-nuclear island area.

**02**

Tunnel projects or cavern projects such as highway tunnels, railway tunnels and subway sections excavated by the mining method.

**04**

Open-digging subway station structural floor, under-digging subway station, underground space, comprehensive pipe gallery and other structures;



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# ADVANTAGES



## Broaden the scope of application of sheet construction

The construction application performance is good, and the effective overlap can also be realized in the construction environment such as rainy weather, water, and low temperature;



## Convenient construction

Empty laying construction of the sheets, over lap edges cold self-adhesive construction, convenient and quick construction;



## Excellent anti water spraying property

Form a permanent seamless combination with post-poured concrete to prevent water spraying;



## Green and environmental protection

Environmentally friendly, free of harmful chemicals, green, energy-saving and environmentally friendly.



## Excellent mechanical properties

The over lap edge has high peel strength, high tensile strength, high elongation, impact resistance, good puncture resistance, and strong structural deformation adaptability;



## Good anti-adhesive effect

The sheet material forms a permanent bond with the post-poured concrete structure layer, the settlement and deformation of the base layer will not affect its waterproof performance, and the reliability of the waterproof layer will be improved;

# TECHNICAL NOTES

**01** | When choosing this product to deal with external environmental factors that are irresistible, you need to consult the HDPE Product Development Department in advance to determine whether to replace it according to the actual on-site environment.

**02** | The overlap method between sheet and different material, according to the actual situation of the site, finally determine the sheet upturning overlap plan.

**03** | It is recommended to build brick mould around the base plate. If a detachable template is selected, the mould removal time should be no less than 7 days and avoid mechanical disturbance. After removing the mold, apply the closing bead and sealant, and fill it in time.

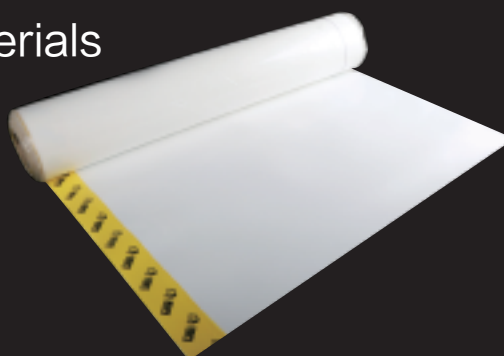
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# INSTALLATION PROCEDURE



## 01 Constructional main materials



## 02 Constructional auxiliary materials

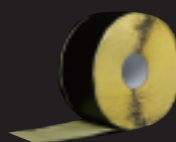
Double-sided tape



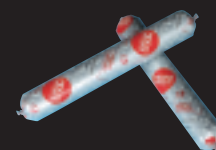
Coating cover strip



Double sided butyltape



Sealant

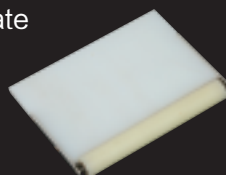


## 03 Construction equipment

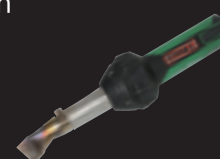
Pressure roller



Pressure plate



Hot air torch



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