CEMIMAX Max Seal PU

High Performance Polyurethane Waterproofing Membrane

Description:

Max Seal PU is a single component, ready to use, highly elastic, cold applied polyurethane waterproofing which cures into a membrane with excellent performance. It is evenly coated on the construction base with scraper, roller and other tools. It can react with moisture and solidify into a flexible, strong and durable waterproof coating.

Technical Data

Max seal PU single component waterproof coating

Product type	Polyurethane
Construction application scope	Permanent waterproof for roof, wall, basement, pool and toilet
Product appearance	Uniform viscous liquid
Product viscosity(23 ℃)	4000-8000mPa·S
Construction time	60 min
Surface drying time (23 ℃)	4000-8000mPa·S
Solid content	＞ 85%
Odor	no pungent odor
Construction conditions	1. Avoid construction below 5 ℃; 2. There is no open water on the construction base; 3. The base course shall be cleaned in advance to remove laitance and dust; 4. The waterproof layer shall not be constructed until the concrete construction is completed for more than 2-3 weeks.

Product Performance

Comparative control tensile strength	2.8MPa
Elongation at break	600%
Tear strength	17N / mm
Bonding strength	≥ 1MPa
Water absorption	≤ 5%
Low temperature bending	- 35 ℃, no crack
Impermeability	0.3MPa, 120min, impermeable
Strength retention rate after acid treatment	80% - 150%
Elongation after acid treatment	600%
Strength retention rate after alkali treatment	80% - 150%
Strength retention rate after alkali treatment	600%
Strength retention rate after heat treatment	80% - 150%
Elongation after heat treatment	800%
Tools required for construction	scraper, roller, trowel
Construction protective equipmen	helmet, gloves, goggles and mask
Film thickness is required to be	1.5mm ± 0.2mm
Construction consumption	about 2.4kg/m²

Product Features

- High strength, high elongation and good elasticity;
- The coating is dense without bubbles or pinholes;
- Environment friendly
- Liquid, cold construction, flexible and convenient application
- Chemical reaction film, water resistance, corrosion resistance, mildew resistance, cold resistance and impermeable.

Application Area

- It is suitable for basement, bathroom and kitchen;
- Water proof and moisture-proof for water pool, cold storage, flooring;
- Suitable for underground construction;
- It can also be used for waterproof of non exposed roof.

Waterproof Structure Requirements

- Basic composition of the system: it shall include waterproof base, additional waterproof layer, membrane waterproof layer, closing and edge sealing, and protective isolation layer. In addition, the relevant levels should be set up scientifically and reasonably according to the functions of buildings.
- The internal and external corners shall be made into arc shape, and the diameter of the internal corner shall be greater than 50mm, and the diameter of the external corner shall be greater than 10 mm.
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- Coating waterproof layer: generally, it is a separate coating waterproof structure, and a layer of matrix reinforced material can be added to the bottom plate of underground works.

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- Thickness of coating film: 1.2-2.0mm for underground works, no less than 1.5mm recommended, and no less than 1.5mm for toilets and bathrooms, In case of multiple fortification of non exposed roof works, the thickness of each layer shall not be less than 1.5mm (superposed according to the number of fortification layers). In case of one fortification of roof with waterproof grade III, the thickness of waterproof layer shall not be less than 2mm. In case of laying matrix reinforcement materials between coatings, the lower coating of matrix shall be less than 1mm and the upper coating shall not be less than 0.5mm.

Application

- **Substrate preparation:**
  The substrate shall be flat, clean, firm and solid, free of open water, sharp corners and obvious wet spots, and the node arc treatment shall be done well to ensure that the construction tools must be dry and clean.
- **Layer for detail node:**
  For internal and external corners, pipe roots, deformation joints and other foundation details, additional waterproof layer construction shall be carried out first, and 2-4 additional coats (thickness not less than 1mm) can be applied.
- **Large area waterproof coating application:**
  The mixture shall be evenly coated with rubber or plastic scraper with the same thickness. Generally about 1.5mm, coating in 2-3 times, and the later coating shall be carried out in different directions after the previous coating solidifies into film.
- **Edge treatment:**
  Add coating for sealing.
- **Protective isolation layer:**
  The protective isolation layer shall be constructed on the surface of the coating waterproof layer according to the design requirements.

Precautions

- There should be no open water on the foundation surface of the project, otherwise, the construction should be carried out 24 hours after the drainage;
- Construction should be carried out at a temperature above 5 ℃, the construction site should be well ventilated, and fire-fighting equipment should be placed;
- After opening the barrel, it should be used up as soon as possible, and the time should not exceed 60 minutes; do not directly expose to the air for a long time to prevent skinning. After opening the cover, the unused materials shall be closed immediately, and the remaining materials shall be used up as soon as possible;
- It is forbidden to walk on the waterproof layer before the coating is dry, and pay attention to protect the construction site.

Packaging, Storage and Transportation

- The product is stored in a clean, dry and closed iron barrel with a volume of 20kg / barrel and 10kg / barrel;
- Transport according to the requirements of dangerous goods, prevent rain, exposure, extrusion and collision, and ensure the package is intact;
- The product shall be stored in a ventilated, dry and cool place to prevent direct sunlight and rain. The storage temperature shall not be higher than 40 ℃;
- Under normal storage conditions, the shelf life is 6 months.