

# CCI WPC-200

Polyurethane Waterproofing Coating



## Product Introduction:

**CCI WPC-200** is a reactive moisture-curing film forming polymer waterproofing coating. It is made of isocyanate and polyether as raw materials. It is mixed with various additives such as latent curing agents and plasticizers. It is made through high-temperature dehydration and polymerization using a special process. When used, it is coated on the waterproof base layer, and the -NCO end group in the polyurethane polymer reacts chemically with the moisture in the air to form a tough, soft, and seamless rubber waterproof membrane on the surface of the base layer.

## Product Features:

- Ready to use on site, easy to construct. There are no strict requirements on the moisture content on the base layer. It can be constructed on a relatively humid base surface or under conditions of high relative humidity.
- Polyurethane coating film has high tensile strength, high elongation, good elasticity, and good high and low temperature resistance. Strong adaptability to base layer shrinkage and cracking deformation.
- One application can reach a thickness of 1-3mm, and the coating film is dense, without pinholes or bubbles.
- Strong adhesion, no need to apply base treatment agent on various base layers that meet the requirement.
- The color is adjustable and can meet the requirements of different customers for different surface colors.

## Scope of Application:

- It is suitable for waterproofing construction of various civil and industrial buildings such as floors, basements, toilets and bathrooms, and swimming pools. It is more suitable for waterproofing projects with complex shapes and vertical and horizontal pipes.

## Construction:

- The base layer must be strong, flat, and free of debris. The inner and outer corners must be arc-shaped. The diameter of the inner corner must be greater than 50mm, and the diameter of the outer corner must be greater than 50mm.
- **Ingredients and Dosage:** Stir evenly according to the construction dosage. The reference dosage for 1mm thick coating is about **1.3-1.5kg/m<sup>2</sup>**.
- **Large-area waterproofing construction:** Apply the mixed paint evenly with a rubber or plastic scraper. The thickness should be consistent, generally 1.5mm-2mm. It should be applied 3-4 times. The subsequent application should be applied before the previous application. After curing and forming a film, it is painted in a vertical direction, usually as a separate film, and an additional layer of matrix reinforcement material should be laid on the underground engineering floor.
- **Coating Film Thickness:** 1.2-2.0mm for underground projects, generally 1.5mm. Toilet and bathroom should not be less than 1.5mm. When multiple layers of waterproofing are used for exposed roof projects, the thickness of each layer should not be less than 1.2mm, and the waterproof grade is III. When the roof is fortified, the waterproof thickness shall not be less than 2mm. When the carcass reinforcement material is added between the coatings, the thickness of the coating below the carcass shall not be less than 1.0mm, and the thickness of the upper coating shall not be less than 0.5mm.
- **Construction of facing layer:** Sprinkle clean sand on the surface before the last coat of paint is solidified.

## Technical Parameters

#	Parameters		Result		
			Type I	Type II	Type III
1	Solid content, %		≥85		
2	Drying Time	Surface Drying Time, h	≤12		
		Working Time, h	≤24		
3	Tensile Strength, MPa		≥2.0	≥6.0	≥12.0
4	Elongation at break, %		≥500	≥450	≥150
5	Impermeable 0.3MPa @ 30 mins		Impermeable		
6	Low Temperature Bendability, °C		≤-35		
7	Bonding Strength, MPa		≥1.0		
8	Leveling		Obvious marks after 20 minutes		
Note: This performance is not applicable to single-component and spray-coated products					

### Storage and Transportation:

- Store materials in a dry place with ventilated room.
- During transportation, strictly protect against sunlight and rain, prevent collisions, and pay attention to fire prevention.
- Product storage period is half a year, and it must be re-inspected after the storage period. It can be used later.

### Packaging:

25 kgs/pail