

# CCI WPC-300

POLYMER MODIFIED CEMENTITIOUS WATERPROOFING COATING



## Product Introduction:

**CCI WPC-300** is a green and environment-friendly waterproof coating, which is a recommended waterproofing coating for residential buildings. The material is a two-component waterproof coating composed of organic liquid materials and inorganic powder materials. It has the dual characteristics of high elasticity of organic materials and good durability of inorganic materials. After coating, it can form a high-strength and tough waterproof coating film.

## Product Features:

- Can be applied directly on wet or dry substrates of various materials without flowing on the surface.
- The coating has high strength, toughness, weather resistance, and excellent durability.
- Pigment can be added to form a colored coating.
- Water-based paint, non-toxic, odorless, pollution-free, environment-friendly.
- Easy construction, short construction period, can be constructed on wet base, and has strong adhesion.
- The coating has a certain degree of breathability, so even if the base layer is wet, the waterproof layer will not bulge.

## Scope of Application:

- It can be constructed on wet or dry masonry, mortar, concrete, metal, wood, hard plastic, glass, gypsum board, foam board, asphalt, rubber, SBS membrane, APP membrane, polyurethane, etc.
- It can be used in new and old industrial and civil buildings (houses, walls, underground, tunnels, bridges, pools, reservoirs, bathrooms, kitchen)

## Construction:

### Basic Treatment

- The surface of the base layer should be smooth, solid, free of sharp objects, floating dust, open water, and oil stains.
- The inner and outer corners must be arc-shaped. With the inner corner radius greater than 25mm and the outer corner radius greater than 5mm
- Uneven and cracked areas must be leveled first, and leaking areas must be plugged first.

### Ingredients

- If you need to add water, add water to the liquid first, then slowly add the powder while stirring with a mixer, stir for 5 minutes, and stir evenly until there are no lumps in the material. The prepared material should be used up within 2 hours, otherwise the increase in viscosity will affect the construction.
- The weight proportioning method of the paint should be based on the proportion marked on the product packaging. The amount of water added can be adjusted appropriately to adjust the viscosity of the paint to meet the construction needs on different parts of the surface and plane.

## Additional Waterproofing

- Fill the grooves with sealing material, and apply it multiple times (2-4 times) on the inner and outer corners, pipe roots and other details. For underground projects, an additional layer of carcass reinforcement material should be laid.
- Large-area waterproofing coatings should be applied multiple times, usually 4 layers, and 5 layers for special projects. The painting time for each layer is generally 8 hours apart, which should be extended during winter. The first coating should be thin enough to be 0.2-0.3mm, and the thickness of each subsequent coating should be 0.4-0.5mm. The amount of paint should be about 0.8kg/m<sup>2</sup>. It should not be too thick in one pass. It is better to add no water or less water during surface construction to prevent the paint from flowing, making it difficult for the surface thickness to reach the desired thickness. At the same time, the accumulation of material in the at the inner and outer corners will be too thick, causing cracks. When paving the carcass, the carcass should be paved flat, without wrinkles, and the overlap should be no less than 100mm. During construction, apply paint first and then lay the carcass. After it's done, paint it again. After the coating waterproof layer is completed and passed the inspection, the finished product should be protected.

### Technical Parameters

#	Parameters	Result		
		Type I	Type II	Type III
1	Solid content, %	≥70	≥70	≥70
2	Tensile Strength, MPa	≥1.2	≥1.8	≥1.8
3	Elongation at break, %	≥200	≥80	≥30
4	Impermeable 0.3MPa @ 30 mins	Impermeable	Impermeable	Impermeable
5	Low Temperature Bendability, °C	No cracks at -10°C		
6	Bonding Strength, MPa	≥0.5	≥0.7	≥1.0

### 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

### Note:

- Construction is not allowed in environment below 0°C and in rainy and snowy weather. Indoor construction can be insulated.
- Ingredients should be prepared as needed. After the mixture is solidified, water cannot be added before use.
- Neutral inorganic pigments should be used for color coatings.
- The painting interval between each layer should be based on the previous coat being dry and non-stick, and the scraping direction of the two layers should be vertical.