

## RGC-CC300 Cementitious Capillary Crystalline Waterproofing Coating

### Description

RGC-CC300 Cementitious capillary crystalline waterproofing coating is a permeable material refined from active inorganic silicon products, cement, quartz sand and so on. It reacts with water and cement to form calcium silicate colloid. In the process of continuous reaction, calcium silicate colloid propagates in a large area, so as to cut off the water channel and achieve the purpose of waterproof. And it can penetrate into the concrete, making the structure of the concrete surface form super dense fiber crystal body. It can be better integrated with concrete to achieve permanent waterproof function, with the best effect in humid environment.

### Specification

Weight	20kg/pail
Supply Form	Powder
Color	Grey
Coverage	1.4kg-1.7kg/m <sup>2</sup> for 1mm thickness

### Features and Benefits

- Non-toxic, harmless, eco-friendly products.
- Long-term waterproof effect.
- Self-healing of small cracks, resistant to changes in the base .
- Anti-corrosion, anti-aging alkali resistance, protection of steel.
- Easy to construction, can be sprayed, scraped and dried on wet or initial set concrete to save the construction period.

### Application

- Waterproof of projects with concrete structure surface;
- Plugging of structural cracking, seepage point and holes;
- Tunnel, culvert, reservoir, dam, bridge, airport runway etc.;
- Projects with cement surface: underground parking lot floor, wallboard, roof, toilet and bathroom etc.

### Storage

- 1) Store the coating in a dry and ventilated room;
- 2) Strictly prevent from being damped;
- 3) The product has a shelf life of 12 months in correct storage condition.

### Construction Guideline

#### Surface preparation:

- 1) The substrates must be flat and solid without sharp objects, floating dust, oil contamination and residual curing compound.
- 2) The uneven and cracked parts shall be leveled first, and the leakage part shall be filled first.
- 3) Damp the surface at the time of application.

#### Mixing:

1) The material must be mixed according to the manufacturer's ratio. If applying to vertical surfaces, water may have to be reduced to achieve the desired consistency to minimise the run off on the surface.

By scraper: clean water : RGC-CC300 powder = 0.25~0.3:1.

By spraying: clean water : RGC-CC300 powder = 0.35~0.4:1.

2) Stirring machine is necessary. When the mixer is running, add clean water to the RGC-CC300 powder to achieve the consistency required.

3) Stirring time is 3-5 minutes to get a lump-free, homogeneous and creamy consistency.

#### **Construction:**

1) Brush or spray the mixed material onto the dampened substrate for 1 coat or 2 coats. The time interval for each layer is 2-3 hours, subject to no indentation when pressing the first coat with your finger slightly.

2) If the first coat is too dry, pre-wetted it before applying the second coat.

3) After construction, protect the surface against rapid evaporation and drying due to direct sun exposure or strong wind. Wet burlap, canvas or other fabric sheets are recommended. It usually takes about 3-5 days.

#### **Precaution:**

1) It can't be constructed below 0°C or in rainy and snowy weather.

2) If the mixed material is too thin or not mixed uniformly, it is easy to cause the base surface powder or shell. Do not add additional water after initial mixing.

3) It is not advisable to use too much material for one time. It should be used up in 30 minutes. Do not put it in the sun.

4) The construction temperature better at 5°C-35°C. It is recommended to construct the morning and evening in the outdoor construction in summer to prevent the base surface temperature from being too high, resulting in the coating being too fast and dry, and the phenomenon of peeling and shelling occurs.

#### **Contact US**

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