

## ResinCoat® T11

### Polymer Waterproof Coating / Two-Components

ResinCoat T11 is a two-component product in which one component of it is a powder that is a mixture of Portland cement, graded aggregate, and chemical admixtures (Part A) and the other component is an emulsion acrylic resin (Part B). This product provides a ready-to-use grout for waterproofing the concrete substrates after mixing.

This product meets the requirements of the National Standard No. 18330-2, grade MC of the EN 1504-2 Standard, and ASTM C836 Standard. Also, the physical and chemical properties of the ResinCoat T11 are produced based on the following table.

Powder Part	Grey
Resin Part	White
The Specific Weight of the powder	1/25 ± 0/02 g/cm <sup>3</sup>
The Specific Weight of the resin	1/02 ± 0/02 g/cm <sup>3</sup>
The Specific Weight after mixing	1/55 ± 0/02 g/cm <sup>3</sup>
Chloride Content	Little

#### The usage

- Waterproofing the concrete and cement substrates
- Covering the horizontal, vertical, and overhead surfaces of the inside and outside areas
- Waterproofing the potable water tanks
- Covering the hardened and old concrete
- Preventing the surface efflorescence
- Increasing the durability of the concrete structures against erosion
- Increasing the abrasion strength within the pedestrian walking path

#### The advantages of using this product

- It has high strength and suitable bonding to concrete substrates
- Without shrinkage
- It does not need excessive water
- It has high durability
- It leads to a reduction in the permeability against water
- It is chloride ion-free

#### The instruction to use this product

##### Surface preparation:

- The desired surface must be cleaned from any types of contamination and dust. The overall surface must be cleaned by the sandblast method if the curing material is used on the surface. The damaged parts must be repaired with SoftCoat and gain their former strength. The surface must be wet and put in SSD condition before covering. No water must be observed on the surface.

##### Paste production:

- An approximate amount of 1 kg is required per 1 square meter.
- The mixing of the components must be done in a mechanical mixer at the speed of 400 to 600 rounds per minute.
- Pour half of part B into the mixer and add the powder part A to the mixer while mixing to obtain a uniform paste. It should be noted that all components make a uniform mixture and prevent agglomeration on the sides of the mixer.
- Meanwhile, the rest of part B is added to the mixer to reach a suitable consistency
- The time of workability for this product is 3 to 4 hours.

### **Implementation:**

- The surface must be in the SSD wet condition before implementation
- Avoid implementing rainfall
- Cover the surface with a brush, roller, or spray. It is recommended to accomplish covering within two steps with a roller or brush to obtain a smoothed surface. Sieve the product before filling the spray.
- The thickness of the implemented film must not exceed 0.5 mm. the risk of surface cracks increases with higher thicknesses.
- The best temperature is between 15 to 25°C. Avoid covering at temperatures below 5°C and over 35°C.

### **Curing:**

- The curing must be done once the covering is finished, and avoid direct exposure to sunlight, wind blow, freezing, and rainfall.
- The curing is done by wet method and plastic cover or wet sack. The minimum time for wet curing is 72 hours.

### **Safety Tips**

The powder component (A) of this product is based on Portland cement which is highly alkaline and can be dangerous in contact with skin and inhaling. The resin component (B) is a safe substance however it can be allergic in contact with skin and inhaling its steam. Therefore, it is necessary to use a suitable gown, goggles, and mask while working and take the following tips into consideration:

- Blink in water for at least 15 minutes in case of eye contact
- Wash your skin with clean water for 15 minutes in case of any contact with the skin
- The contaminated clothes must be washed with suitable detergents to be usable for further work.
- It is necessary to visit a doctor if the injured individual still feels uncomfortable

### **Other necessary notes for implementing**

#### **The corrosion of the product**

This product does not start or extend corrosion in the buried bars in concrete, the pre-stressed steel, floor systems, and the roof made of galvanized steel. No Calcium chloride or any other compounds containing chloride is used in producing the ResinCoat T11.

### **Transportation and storage of the product**

#### **The conditions and maintenance temperature of transportation**

The allowable transportation and maintenance temperature of this product is between 5 and 30 °C. It is also necessary to consider the following tips:

- Avoid putting the container having the admixture in direct exposure to sunlight
- Avoid putting the product in direct exposure to moisture

#### **The lifetime of the product**

If the containers of this product are conserved and stored in a standard condition, they will be usable for 12 months.

### **The packaging**

This is a two-component product. The powder part and resin part are supplied in 10 kg packets and 10 kg gallons respectively.

### **Complementary information**

Contact the technical section of Capco Company for complementary information. You can also refer to the performance form of (ResinCoat T11-PPI) T11 for more information on the performance of this product.