

## CapCure® O

### Concrete Curing Compound

CapCure O is produced based on the resin in the solvent hydrocarbon that is used to retain the water in the concrete pores and prevent water seepage from the concrete surface. This product prevents the evaporation of water from the inside of concrete by developing a continuous waterproof polymer film on the surface of the concrete.

This product is produced based on the general requirements of the Iran National Standard No. 8288. Also, this admixture meets the requirements of the ASTM C309 standard.

The physical and chemical properties of CapCure O are according to the following table and produced in the allowable changing range of Iran National Standard No.8288.

Physical State	Liquid
Color	Amber and White
Chemical Base	Natural Resin
Density	0/85 ± 0/05 g/cm <sup>3</sup>
Chloride Content	Chloride-ion Free
pH	7 ± 1
Freezing Temperature	<-10°C

### The usage and the effect of the admixture on the curing compound

#### The usage of the curing compound

- Different types of curing concrete structures and cement surfaces especially in hot weather
- The curing of the repaired concrete surface

#### The advantages of using the curing compound in concrete

- Preventing the fast and early evaporation of the concrete
- It does not need water spraying and keeping the concrete wet during the curing period.
- Retaining the required moisture to maintain the hydration
- Preventing shrinkage due to the fast drying of concrete and developing the resulting cracks
- No negative effect on the surface and color of the concrete

- Increasing the concrete strength in the freezing and thawing cycles and preventing the spalling of the surface of the concrete.

### The instruction to use the curing compound in the concrete

#### The allowable range of using the curing compound in the concrete

The allowable range for using The CapCure O is approximately 1 liter per 4 to 7 square meters. The amount of using this product in hot weather with harsh wind is higher. Also, not using this product in the allowable range may result in a reduction in efficiency or developing a flaw in the hydration process.

#### The instructions to use the curing compound

The time of applying the curing compound on the vertical surfaces is right after opening the molds and on the horizontal surfaces adjacent to environmental conditions is at the beginning of the middle curing period (After the first setting time of the concrete and when the bleeding and troweling are finished).

The curing compound is usually applied two times in two directions perpendicular to each other to fully cover the surface. For vertical surfaces, the curing compound is applied two times within one hour to fully cover the surface.

It is recommended to apply the curing compound by spraying with a spraying device on the surface; however, for small surfaces, the curing compound can be applied with a brush and a scratch brush if the supervisory system confirms. In case of using a

spray, it is recommended to place the spray nozzle at a 0.5-meter distance from the concrete surface.

If the final surface operations such as painting are accomplished on the final surface of the concrete, it is necessary to wipe this product off the surface after the curing period. This should

be done by mechanical methods. The water jet and sandblast are high-quality cleaning methods; however, in small-sized structures sanding can be used as well.

**Note:** in case of using the white curing compound, it is necessary to mix it completely before using.

### **Safety tips while using the curing compound**

This product is not categorized as a dangerous substance; however, it can be allergic to contact with the skin. 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
- This product is flammable and must not be lightened up near the fire.
- Avoid smoking or welding operations near the implementation site.

### **Transportation and storage of the admixture substance**

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

The allowable transportation and maintenance temperature of this product is between 5 and 35 °C. It is also necessary to consider the following tips:

- Avoid putting the container having the admixture in direct exposure to sunlight
- Prevent the admixture from freezing

### **The admixture lifetime**

If the containers of this product are conserved and stored in a standard condition, they will be usable for 12 months. Mix the white color product completely before using it.

### **The admixture substance packaging**

This product is supplied in 20 Kg gallons and 210 Kg barrels.

### **Complementary information**

Contact the technical section of Capco Company for complementary information. You can also refer to the performance form of (CapCure O-PPI) O for more information on the performance of this product and its efficiency in the characteristics of fresh and hardened concrete.