

CapCure[®]WS

Concrete Curing Compound

CapCure WS is produced based on water and is a solution of the silicate salt inside the water that is used to retain the water inside the concrete pores and prevent its seepage from the surface of the concrete. This product is involved in the hydration reaction of the cement by penetrating the surface of the concrete and makes a strong hard crystalline against water penetration.

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 WS are according to the following table and produced in the allowable changing range of Iran National Standard No.8288.

Physical State	Dense Liquid
Color	Yellow
Density	1/5 ± 0/1 g/cm ³
Chloride Content	Little
pH	13 ± 1

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

The usage of the curing compound

- Curing different types of concrete structures and cement surfaces, especially in hot weather
- Curing the repaired concrete surfaces

The advantages of using the curing compound in concrete

- This is a water-soluble product
- It makes hardness on the surface of the concrete
- Guarantees the final strength of the concrete
- It does not have a negative effect on the
- It is not flammable

The instructions to use the curing compound in concrete

The allowable range of using the curing compound in the concrete

The allowable range for using The CapCure WS is approximately 1 kg per 6 to 12 square meters. The amount of use of this product depends on the quality of the surface of the concrete and is considered more for porous surfaces. 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

This product is diluted and well uniformed with water with a 1-to-1 ratio.

For horizontal surfaces, after troweling and drying the surface water, when the concrete is hard enough to walk on, the diluted solution should be sprayed on the surface. After half an hour, the substance forms a gel that needs water spray and then troweling (Power trowel) for 15 minutes on the surface. After 20 minutes, the gel form will be seen again. Meanwhile, it is necessary to wash the surface and wipe off the excessive amount of CapCure with a suitable tool. For hardened concrete, the surface of the concrete should be washed from possible contaminations and then dried once the molds are opened. The diluted solution should be sprayed on the surface and troweling should be done on the surface for 20 minutes so that the CapCure WS penetrates inside the pores completely. After the gel is formed and the surface is smoothed, the water must be sprayed on it and troweled for 15 minutes, and washed after smoothing with water. For porous surfaces, it is necessary to repeat the operations in two steps.

Safety tips while using the curing compound

This product is highly alkaline and can cause serious harm to contact with the skin or eyes. Inhaling the steam from this product is dangerous and efficient ventilation should be considered in enclosures. 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

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.

The admixture substance packaging

This product is supplied in 28 Kg gallons and 1250 Kg Pallets.

Complementary information

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