

CapcoBond® PVA

Bonding Agent/Interface Adhesive for Concrete and Mortar

CapcoBond PVA is a water-based polymer that is used as an adhesive for building materials such as concrete and concrete repair. The CapcoBond PVA can increase concrete bonding since it is a resin that is easily dispersed in the water.

This product is produced based on the general requirements of the Iran National Standard No. 1922. Also, this product meets the requirements of the ASTM C1059 Standard.

The physical and chemical properties of the CapcoBond PVA are according to the following table and are produced in the allowable changing range of the Iran National Standard No.19224.

Physical State	Dense Emulsion
Color	White
Chemical Base	Vinyl
Density	1/04 ± 0/05 g/cm ³
Freezing Temperature	-5°C

The usage and effect of the adhesive on concrete and mortar

The usage of the adhesive

- Bonding old concrete to new concrete
- Repairing honeycombed concrete with suitable mortar
- Bonding different types of building materials
- Improving the durability of the mortar

The advantages of using the epoxy adhesive

- It leads to an increase in the concrete and mortar components
- It is soluble in any ratio of the water
- It improves the cohesion of the concrete and mortar
- It is easy to use

The instruction to use the adhesive in the concrete and mortar

The allowable range and instructions to use the adhesive

- 1- To increase the bonding between concrete, mortar, and tile adhesive:** Dilute the product having a 1:3 ratio with water and use it to make different types of mortar and concrete.
- 2- As a color (lining) primer:** After cleaning, the desired base surface should be covered with the product that is diluted with a 1:3 ratio with water to fill all pores.
- 3- Concrete repair:** first the damaged concrete surface is prepared and cleaned completely. Then the damaged surface must be coated with a 1:1 mixture of the product and water and let form a sticky compound. Meanwhile, the repair mortar is made as follows and applied on the sticky film.

- The instruction to make the repair mortar: The mixture of cement and fine sand is mixed with a ratio of 1 to 2 to form a mortar with a solution of the aforementioned adhesive and water with a 1 to 4 ratios.

Note: This product is not waterproof and loses its durability against moisture.

Curing: The CapcoBond PVA mortars are based on cement that needs to be cured. CapCure products can be used for this purpose.

Safety tips for using the adhesive

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. Also, this product is flammable and it is necessary to avoid smoking and welding while working. Besides, it is necessary to 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.

Other necessary notes for using the adhesive **The compatibility of the adhesive with other products**

It is necessary to consult with the technical section of Capco Company for simultaneous use of this product with other products of the company.

The corrosion of admixture

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.

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 25 °C. It is also necessary to consider the following tips:

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

The epoxy lifetime

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

The packaging

This product is supplied in 4 and 9 kg containers.

Complementary information

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