

## CapcoBond® 121

### Bonding Agent / Admixture for Concrete and Mortar

CapcoBond 121 is a water-based polymer which is used as bond for different types of materials including concrete, mortar, and tile adhesive. CapcoBond 121 can increase cohesion of concrete components since it is based on a water emulsion resin.

This product is produced according to the Iran national standard No. 19224. Also, this product conforms to requirements of ASTM C1059 Standard.

The physical and chemical properties of CapcoBond 121 are according to the following table and produced in the allowable changing range provided in the Iran national Standard No.19224.

Physical State	Dense Paste
Color	White
Chemical Base	Vinyl
Density	1/50 ± 0/05 g/cm <sup>3</sup>
Freezing Temperature	-5°C

#### The usage and effect of bond on concrete and mortar

##### The usage of bond

- Binding fresh concrete to old concrete
- Installation of tile and ceramics in dry environments
- repairing honey-combed concrete with suitable mortar
- binding different materials to each other
- improving mortar's durability

##### Advantages

- increasing the bond between concrete components and mortar
- dissolves in water with any proportions
- improves the cohesion and uniformity of concrete and mortar
- easy to use

#### Instructions to use the bond in concrete and mortar

##### Allowable range and instructions to use the bond

- **To increase the bond of concrete, mortar, and tile adhesive:** This product dilutes with water to cement ratio of 1 to 3 and is used to make different types of mortar and concrete.
- **As a paint primer (lining):** surface of the desired base should be coated with the product diluted with 1:3 water to cement ratio after cleaning to fill the pores.

**Note:** the aforementioned product does not have sealing property and loses its durability.

**Curing:** the CapcoBond 121-based mortars are cement mortars which should be cured. Therefore, the CapCure products of CapCo Company can be used for this purpose.

##### Safety tips when using the bond

This product is not categorized into dangerous substances; however, it can be allergic in contact with skin. Therefore, it is necessary to use suitable gown, goggles, and mask while working and take the following tips into considerations:

- 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 skin.
- The contaminated clothes must be washed with suitable detergents to be usable for further works.

## **Other necessary notes in using the bond**

### **Compatibility of bond with other products**

It is necessary to consult with the technical section of the company in order to use this bond with other admixtures of Capco Company simultaneously.

### **The corrosion of the bond**

This product does not start or extend corrosion in the buried bars in concrete, the pre-stressed steel, floor systems and the roof made by galvanized steel.

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

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

The allowable transportation and maintenance temperature of this product is between 5°C and 25°C. It is also necessary to consider the following tips:

- Avoid putting the container having complementary substance in direct exposure of sunlight.
- Prevent the bond from freezing

### **The lifetime of the bond**

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

## **The packaging of the product**

This product is supplied in 1, 4, and 10 Kg containers.

## **Complementary information**

Contact the technical section of Capco Company for complementary information. You can also refer to the performance form of (CapcoBond 121-PPI) 121 for more information on the performance of this product.