

CapcoBond AR

Bonding Agent / Interface Adhesive for Concrete and Mortar

CapcoBond AR is a water-based polymer that is used as a bond for different types of materials including concrete as well as concrete surface repair. Since CapcoBond is a resin being dispersed in water easily, it can increase the bond between concrete components.

This product is produced according to the Iran national standard No. 19224. Also, this product conforms to the requirements of the 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	Liquid
Color	White
Chemical Base	Aromatic
Density	1/03 ± 0/01 g/cm ³
Freezing Temperature	-2°C

The usage and effectiveness of the product on the concrete

The usage of bond

- Binding fresh concrete to old concrete
- Using it in mortars to repair the honey-combed concrete
- Curing the surface of the concrete
- Improving the durability of the mortar
- Surface sealing

The advantages of using bond

- Increasing the bond between concrete components and mortar
- Dissolves in water with any proportions
- Improves the cohesion and uniformity of concrete and mortar
- It is easy to use and does not have any health risks
- It is water-resistant
- It does not have any Chlorine and is suitable for reinforced and pre-stressed concrete.

Instructions to use this product

The allowable range and instructions to use the bond

- 1- **As a bond:** the surface should be clean and free of any dust, oil, and other contaminations. A film of the mentioned bond is applied on the primary surface of the concrete and the new mortar or concrete will be implemented on the surface once it becomes adhesive.
- 2- **Concrete repair:** First, the cement mixture is prepared with a ratio of 1 to 3. Then the CapcoBond AR product of 10% by weight of cement is batched. Next, the CapcoBond AR is added to the aforementioned mixture and can reach the required uniformity with water and finally can be used as a repair mortar. The tools must be washed with water after the work is finished.

Safety tips when using the bond

This product is not categorized as a dangerous substance; however, it can be allergic to contact with 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

Other necessary notes regarding this product

The compatibility of the bond with other products

The simultaneous use of this product with other admixtures of the Capco Company in a mix design is allowed. However, it is necessary to batch each admixture separately and then add it to the concrete mix.

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 of 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 substances in direct exposure to sunlight.
- Prevent the product 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, 5, and 20 Kg gallons.

Complementary information

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