

## SoftCoat®

### Non-Structural Repair Mortar

SoftCoat is a Portland cement-based product that is non-shrinkage and has high strength. The aforementioned product is used to repair obsolete and honeycombed concrete and cement substrates.

This product meets the requirements of grade R1 of the non-structural category of the EN 1504-3 Standard. Also, the physical and chemical properties of the SoftCoat are produced according to the following table:

Physical State	Powder
Color	Grey
Bulk Specific Weight of the Powder	1/66 ± 0/02 g/cm <sup>3</sup>
The Specific Weight of ready-to-use Mortar	2/03 ± 0/02 g/cm <sup>3</sup>
Chloride Content	Little

### The usage and effect of the surface repair

#### The usage of the repair

- Repairing the honeycombed and destroyed surfaces of the concrete
- Filling the pores of the concrete surface

#### The advantages of using the surface repair

- It has high strength and bonding to concrete surfaces.
- Non-shrinkage
- High durability
- It is a single-component and easy to use.
- Chloride ion-free

### The instruction to use the surface repair

#### The allowable range and instruction to use the repair material

- The desired surface must be scratched to 2 to 3 cm with a suitable tool. Then the surface should be cleaned by water pressure from any contaminations and dust. The scratch must develop negative grooves on the surface to involve the repair mortar.
- The clean prepared surface must be bedded by the CapcoBond products such as PVA or AR depending on the type of work. It is better to use CapcoBond AR if the surface is wet. To prepare the surface, it is necessary to dilute CapcoBond with a ratio of 1 to 5 with water and rub it on the surface with a brush. Then let the surface dry for 1 to 3 hours.
- 3.5 liters of water is poured into the mixer per 25 kg packet of SoftCoat, and the powder is added to the water at a suitable rate. The mixing should continue so that a uniform mortar is obtained. The added water can be increased to 4.5 liters to adjust the workability of the mortar. It should be noted that the final strength reduces by increasing the water.
- Then another layer of the product must be implemented and let make a cohesive form. Meanwhile, the prepared mortar is rubbed or poured on the cohesive surface. Then the surface should be smoothed by troweling.
- For repairs with more than 3 cm depth, an amount of sand proportionate to the concrete surface being repaired must be mixed with the product. The size of the sands is 3 to 10 mm depending on the repair surface. Also, the used sand must be washed and cleaned. It is necessary to use CapcoBond AR for bedding.

**Curing:** The surface will reach full setting about 3 to 4 hours after troweling. It is necessary to use the wet curing method for the repaired surface for at least 72 hours.

### **Safety tips for using the surface repair**

This product is based on Portland cement which is highly alkaline and is dangerous in contact with the skin. Therefore, it is necessary to use a suitable gown, goggles, and mask while working. It is also 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.
- It is necessary to visit a doctor if the injured individual still feels uncomfortable

### **Other necessary notes for using the surface repair**

#### **The corrosion of the product**

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. No Calcium chloride or any other compounds containing chloride is used in producing the SoftCoat.

### **Transportation and storage of the product**

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

The allowable transportation and maintenance temperature of this product is between 5 and 30 °C. It is also necessary to consider the following tips:

- Avoid putting the container having the admixture in direct exposure to sunlight
- Avoid putting the product in direct exposure to moisture.

### **The lifetime of the product**

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 25 Kg packets.

### **Complementary information**

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