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# BestRepair CE500

Surface-repairing mortar, Polymer-cement modified, one component

**Description:**

BestRepair CE500 is surface repairing mortar, one component, polymer cement modified. BestRepair CE500 is a combination of: special cement, mineral and selected silicate mineral fibers, polymer and special additives to make its chemical and physical properties.

**Recommended uses:**

- BestRepair CE500 is used for repairing to finish surface: floor, wall, ceiling, ...which is honeycombed, damaged by erosion, impact, mechanical abrasion,...during use.
- Recreating flatness for new surfaces that have not reached the flatness or gloss due to construction.
- BestRepair CE500 is used for all types of surfaces in medium and light load such as workshop floors, parking lots, pool bottoms, water tank, and prefabricated components ...

**Advantages:**

- One component, accurately quantified at the factory so it is easy to use, minimizing risks during construction.
- High plasticity, easy to adjust and construct, so it saves labor and materials costs.
- Non-shrinkage, minimizing surface cracking.
- Rapid and high-strength development, quickly put the project into use.
- Improve abrasion resistance, chemical resistance, and waterproofing for surface repair.
- Enhances the beauty and appeal of the workplace.
- Cure easily
- Non-toxic, can be used for water reservoirs.
- Non-chloride, non-corrosive.
- Suitable for Vietnamese climate conditions.

**PRODUCT INFORMATION:**

<b>Supply form:</b>	Dry powder. Appearance as grey cement.
<b>Density:</b>	Dry powder form: $2.65 \pm 0.02$ kg/liter. Wet form: $2.23 \pm 0.02$ kg/liter.
<b>Mixing water:</b>	13÷15
<b>Particle size:</b>	< 2 (mm)
<b>Consumption:</b>	Need 74÷75 bags for 1m <sup>3</sup> mortar.
<b>Packaging:</b>	25 kg/bag.
<b>Storage condition:</b>	Unopened bag, cool and dry place.
<b>Shelf life:</b>	12 months comply in storage condition.

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**TECHNICAL INFORMATION**

Shrinkage (%)	Layer thickness (mm)	Pot life (minute)
< 1	5÷20	< 30

**Minimum strength:**

Sample age	01 day	03 days	07 days	28 days
Compressive strength (*) (MPa)	≥ 15	≥ 25	≥ 40	≥ 50
Flexural strength(*) (MPa)	≥ 1.0	≥ 2.0	≥ 3.0	≥ 3.5
Bonding strength(**) (MPa)	NA	NA	NA	≥ 1.5

(\*): Standard: ASTM C348; ASTM C349.

(\*\*): Standard: ASTM D7234-05

**GUIDE OF APPLICATION:**

**Substrate preparation:** The surface to be repaired must be properly treated, and all loose materials and impurities must be removed. Avoid spreading grease, oil,... use high-pressure water to clean the surface before constructing. If the surface is dry, moisten it with clean water.

**Mixing:** Pouring BestRepair CE500 slowly into properly freshwater rate (water 13-15% compared to the weight of powder, about 3.25-3.75 liter of fresh water for 25 kg) continuously stirring with an electric mixer at speed 300 ÷ 400 revolutions/minute for about 05 minutes until the compound is free of lumps and homogeneous as required.

**Application:** Use a brush to apply the bonding layer of BestBond EP759 (see the application document of BestBond EP759) over the entire surface prepared as above. Apply the mortar layer of BestRepair CE500 was thoroughly mixed with water on the surface while the bonding layer of BestBond EP759 is still wet. Ensure the BestRepair CE500 mortar should be compacted to the surface to achieve the highest consistency and that the maximum thickness of the BestRepair CE500 mortar layer is not exceeding 20mm.

**Curing:** Curing regular requirements as others cement base products. Reduce free of water by covering wet cloth, plastic cover, or cure compound BestCure AC015 or BestCure SS015.

**Health and Safety:** BestRepair CE500 is alkaline, should wear gloves, masks, and glasses while handling the product. In case of accidental eye contact, wash with fresh water and seek medical advice immediately.

**Statement of responsibility:** *The technical information and application instruction in documents of BESTMIX based on BESTMIX's current knowledge and practical experience. The information here only describes the general nature of product, so users should test the product for each purpose. BESTMIX has the right to change features of our product, user must always refer the latest technology product.*

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