

BET10® EPOMORTAR

Epoxy Based Repair, Anchorage and Assembly Mortar Product Technical Data Sheet



GENERAL FEATURES

DESCRIPTION

BET10® Epomortar is an epoxy-based, two-component, repair, anchoring and installation mortar.

FIELDS OF APPLICATION

- Anchoring the rods and deformed bars to the concrete, stone or brick
- Cap seal and entry ports installation in epoxy polyurethane injection works
- Chemical anchoring in concrete and brick walls
- Repair and insulating of wide cracks
- Fixing the guard bars and seismic isolators to the bridges and viaducts
- Bonding of various types of construction materials such as steel, concrete, brick to each other

ADVANTAGES

- Not contain solvents.
- Provides excellent adhesion to concrete and steel.
- It has high filling and levelling capacity.
- Gains mechanical strengths quickly.
- It is resistant to chemicals.
- Provides adhesion to damp surfaces.
- It is in paste form, easy to apply, and does not sag in ceiling applications.
- It is impermeable to water and gas.

PREPARATION OF THE SURFACE

For the repair of reinforced concrete elements, the surface to be treated should first be cleaned of dust, oil, and construction waste. Damaged and loose concrete parts on the surface should be removed, and steel surfaces should be cleaned of rust using a sandblasting method. The edges of the surface created by breaking should be cut as steeply as possible, rust on the reinforcement should be removed, and new reinforcement should be added if necessary. If there is water flow on the surface, it should be plugged or drained with a suitable plug.

APPLICATION

MIXING

BET10® Epomortar is provided in sets according to the ready-mixed ratio. Before starting the mixture, make sure that the material temperatures are between +15 - +25 °C. Component B should be completely poured into component A, and make sure that there is no material left in component B. The mixture should be mixed with a mixer at a speed of approximately 300 rpm and with a suitable mixing tip, including the edges and the bottom of the package, until a homogeneous mixture is obtained without any unmixed material for at least 3 minutes.

APPLICATION

BET10® Epomortar should be applied to the prepared surface using a trowel or a spatula. The application thickness should be at least 2 mm and at most 30 mm. For anchoring applications, holes of the appropriate depth should be drilled with a drill bit at least 6 mm larger than the diameter of the reinforcement. The drilled holes should be cleaned with a wire brush and compressed air. The prepared material should be filled into an appropriate mortar gun. The nozzle of the gun should be pulled out of the hole towards the outside to fill the anchoring hole with BET10® Epomortar. The anchoring rod of the desired length and diameter should be inserted into the hole by turning it.

CLEANING OF TOOLS

After application, the tools and equipment used should be cleaned with solvent. Once cured, BET10® Epomortar can be mechanically removed from the surface.

PACKAGING

BET10 Epomortar
5 kg kit
Component A: 3.75 kg tin can
Component B: 1.25 kg tin can

TECHNICAL DATA

BET10® Epomortar Component A BET10® Epomortar Component B	Epoxy Resin
	Epoxy Hardener
Mixture Density	1,65± 0,05 kg/lit
Mixture Ratio	3,00 : 1,00
Consumption	1,7kg/m ² (1mm için)
Compressive Strength (7 Days)	>60N/mm ² (TSE 196)
Flexural Strength (7 Days)	>25N/mm ² (TSE 196)
Adhesion Strength (7 Days)	>3N/mm ²
Pot Life (20°C)	40 Minutes
Finally Cured at (20°C)	7 Days
Application Temperature	-15°C - +90°C

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THINGS TO CONSIDER

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- BET10® FRP systems should only be applied by expert applicators.
- Working and reaction times of resin-based systems are affected by ambient and surface temperature. Chemical reaction slows down at low temperatures, which extends pot life, recoating time, and working time. At the same time, increased viscosity leads to higher consumption. High temperatures, on the other hand, accelerate chemical reaction and shorten the above-mentioned times accordingly. Ambient and surface temperature should not fall below the allowed minimum temperature for the material to complete its full cure. After completion of the coating, it should be protected from direct water contact for at least 24 hours.
- During application, ambient and surface temperature should not be below +5°C or above +35°C.
- Mixing should always be done with appropriate mechanical mixers. Hand mixing should not be performed.
- In special cases (different weather conditions, various application areas, etc.), if any application not mentioned in the data sheet is to be made, BET10® Construction Chemicals Technical Service should be consulted.

STORAGE

It should be stored in its original unopened packaging, in a cool and dry place, protected from frost. During short-term storage, no more than 3 pallets should be stacked on top of each other and shipped on a first-in, first-out basis. During long-term storage, pallets should not be stacked on top of each other.

SAFETY PRECAUTIONS

Preventive measures taken for conventional chemical products should be considered when using this product. After the work is completed or interrupted, hands should be washed thoroughly with plenty of water, and food, drink, and smoking should be avoided. Special safety information regarding the use and transportation of this product is available in the Material Safety Data Sheet. Relevant Health and Safety Information Documents should be consulted for complete information on health and safety issues. This product and its packaging should be disposed of in accordance with local laws and regulations. This responsibility belongs to the end user of the product.

SHELF LIFE

The shelf life is 18 months from the production date under appropriate storage conditions. Opened packages should be stored under appropriate conditions and used within one week.

DISCLAIMER

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