

BET10® EPOPRIME N/O

Epoxy Based Flowable Adhesive

Product Technical Data Sheet



GENERAL FEATURES

DESCRIPTION

BET10® Epoprime N/O is a two-component epoxy-based adhesive. It is solvent-free and has a flowing consistency, making it applicable through brushing or pouring methods. This adhesive is used to ensure the adhesion of old concrete surfaces to new concrete surfaces or to facilitate the bonding of different types of materials to each other.

FIELDS OF APPLICATION

- Providing adhesion between old concrete surface and new concrete surface,
- Used for bonding different materials such as concrete, stone, metal,
- Applied before the repair mortar to protect reinforcement against corrosion,
- Used as an adhesive for planting seedlings on horizontal surfaces or for anchoring and mounting reinforcement.

ADVANTAGES

- Through its excellent adhesion properties, it can be easily applied between old and new concrete surfaces. After application, the tensile stress and adhesion strength values obtained are higher than the tensile strength of the concrete.
- Provides a barrier effect against corrosion by protecting the reinforcements perfectly.
- Can be easily applied both by brush and by pouring.
- Provides very good adhesion even on damp surfaces.

PREPARATION OF THE SURFACE

The application surface must be strong, dry, dust-free, and clean. Additionally, it is important that the surface is level. The surface must be thoroughly cleaned of any residues such as oil, grease, rust, and wax that may weaken adhesion. Loose particles should not be present on the surface. Steel surfaces should be sandblasted to remove rust. If the surface is created by breaking, the edges should be cut as steep as possible,

APPLICATION

the rust on the reinforcement should be removed, and if necessary, new reinforcement should be added. Surfaces with water flow should be plugged or drained with an appropriate plug. Proper implementation of all these steps helps prepare the application surface for carrying and providing excellent adhesion.

MIXING

BET10® Epoprime N/O is provided in sets based on a ready-to-use mixing ratio. Before starting the mixing process, make sure that the temperature of the materials is between +15 - +25°C. Component B should be poured entirely into component A, making sure that no material is left in component B. The mixture should be stirred using a mixer at a speed of approximately 300 rpm and an appropriate mixing tip, including the edges and bottom of the packaging, until a homogeneous mixture is obtained with no unmixed material left for at least 3 minutes.

APPLICATION

BET10® Epoprime N/O mixture is applied to old concrete surfaces with a brush or roller to ensure excellent adhesion between new and old concrete. After this process, new concrete should be poured within 5-40 minutes depending on the ambient temperature. For vertical anchorage constructions, holes larger than the diameter of the reinforcement should be drilled with a drill bit at least 6mm deeper than the required depth. The drilled holes should be cleaned with a wire brush and compressed air. The material should be filled into the appropriate mortar gun filled with BET10® Epoprime N/O. After the anchorage hole is sufficiently filled, the anchorage rod of the desired length and diameter should be placed into the hole. The nozzle should be pulled outwards from the bottom of the hole to fill the anchorage rod with sufficient BET10® Epoprime N/O. By correctly implementing all of these steps, vertical anchorage constructions can be carried out safely and reliably.

TECHNICAL DATA

BET10® Epoprime N/O Component A BET10® Epoprime N/O Component B	Epoxy Resin
	Epoxy Hardener
Mixture Density	1,55 ± 0,05 kg/lt
Mixture Ratio	2,00 : 1,00
Viscosity	8000 mPa.s
Compressive Strength (7 days)	>85 N/mm ² (TSE 196)
Flexural Strength (7 Days)	>25 N/mm ² (TSE 196)
Elasticity Moduls (28 Gün)	>25 N/mm ² (TSE 196)
Adhesion Strength (7 Days)	>5000 N/mm ²
Tensile Strength (7 Days)	>20 N/mm ² (TSE 196)
Slip Resistance (1 Day)	>14 N/mm ² (TSE EN 12003)
Pot Life (20°C)	45 Minutes
Finally Cured at (20°C)	7 Days
Application Temperature	-30°C - +80°C
Application Surface Temperature	+10°C - +30°C
New Concrete Casting Range	Between 5 - 75 Minutes

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THINGS TO CONSIDER

CONSUMPTION

For 1 liter of volume, it is 1.55 kg.

THINGS TO CONSIDER

- Epoxy injection applications should only be carried out by expert applicators.
- The working and reaction times of resin-based systems are influenced by the ambient and surface temperature. Chemical reaction slows down at low temperatures, which extends pot life, the time for coating and working time. At the same time, increased viscosity leads to higher consumption. High temperatures increase the chemical reaction, and the above-mentioned times are shortened accordingly. The ambient and surface temperature must not fall below the allowed minimum temperature for the material to complete its cure.
- After the completion of the coating, the coating should be protected from direct water contact for at least 24 hours.
- During application, the ambient and surface temperature should not be below +5°C and above +35°C.
- Mixing must be done using suitable mechanical mixers. Hand mixing should not be used.
- In special cases (different weather conditions, various application areas, etc.), if any application that is not specified in the data sheet will be made, BET10® Construction Chemicals Technical Service should be consulted.

CLEANING OF TOOLS

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

PACKAGING

BET10® Epoprime N/O
Ready-to-use 5 kg set

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.

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.

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.

DISCLAIMER

The information provided in this technical document is based on our scientific and practical knowledge. Bet10® Koruma Sistemleri Danışmanlık ve İnşaat San. ve Tic. Ltd. Şti. is solely responsible for the quality of the product. Bet10® Koruma Sistemleri Danışmanlık ve İnşaat San. ve Tic. Ltd. Şti. cannot be held responsible for any results arising from the use of the product in a manner other than that recommended in the written suggestions or from incorrect use. This technical document is valid until a new edition is printed and nullifies the previous editions.

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