

BET10® CARBON WRAP ADHESIVE

Epoxy Based Adhesive

Product Technical Data Sheet



GENERAL FEATURES

DESCRIPTION

BET10® Carbon Wrap Adhesive is a two-component, solvent-free, high-strength, epoxy-based special adhesive.

FIELDS OF APPLICATION

BET10® Carbon Wrap Adhesive plates are used for bonding BET10® Carbon Wrap fiber-reinforced polymer fabrics.

ADVANTAGES

- Has high mechanical properties.
- Easy to mix and apply, and can be easily applied with a trowel or a filling roller.
- Ideal for manual impregnation (filling) process.
- Not requires a separate primer application.
- Can be applied to both vertical and horizontal surfaces.
- Provides high adhesion to many surfaces.

PREPARATION OF THE SURFACE

- The surface to be applied must be cleaned from dust, weak and loose particles, cement slurry residues, etc. and should be dry.
- The concrete substrate should have compressive strength (25N/mm²) and tensile strength (pull-off 1,5N/mm²).
- The surfaces to be applied must be primed before application.

MIXING

BET10® Carbon Wrap Adhesive is supplied in ready-to-use sets according to the mixing ratio. Before starting the mixing process, the temperature of the materials should be between +15 - +25°C. Component B should be completely poured into Component A, making sure that no material is left in Component B. The mixture should be stirred for at least 2-3 minutes with a suitable mixing nozzle and a mixer with approximately 300 rpm to obtain a homogeneous mixture, ensuring that no unmixed material remains on the packaging edges and bottom.

APPLICATION

APPLICATION

BET10® Carbon Wrap Adhesive is applied to the surface with a roller to obtain a thickness of 0.8-1 mm. When the material is still wet, fiber-reinforced polymer fabrics cut to the appropriate size should be applied to the surface by stretching the fibers. The material should be rolled until no air remains inside.

- In multi-layer fiber-reinforced polymer applications, 700-800gr/m² adhesive should be used between the layers. In areas exposed to sunlight, the coating should be applied within 7 days at the latest.
- In order to apply plaster on it, a toothed sand should be sprinkled over the last layer of BET10® Carbon Wrap Adhesive while it is still wet to create roughness that will facilitate the adhesion of the plaster.
- Care should be taken to prepare enough material that can be used within the working time.
- The material must be mixed with suitable mechanical mixers. Mixing by hand should not be performed.

CLEANING OF TOOLS

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

PACKAGING

BET10 Carbon Laminate Adhesive

6 kg kit

Component A: 3.00 kg tin can

Component B: 3.00 kg tin can

THINGS TO CONSIDER

- 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

TECHNICAL DATA

BET10® Carbon Wrap Adhesive Component A BET10® Carbon Wrap Adhesive Component B	Epoxy Resin
	Epoxy Hardener
Mixture Density	1,3± 0,05 kg/lit
Mixing Ratio	4,00 : 1,00
Viscosity	1500 – 2500 mPa.s
Consumption	1-1,5kg/m ² (300gr)
Compressive Strength (7 Days)	>70N/mm ² (TSE 196)
Flexural Strength (7 Days)	>40N/mm ² (TSE 196)
Adhesion Strength (7 Days)	>3N/mm ²
Recoat Time	min 48 hours - max 7 Days
Finally Cured at (20°C)	7 Days
Application Temperature	+5°C - +30°C (Concrete)

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THINGS TO CONSIDER

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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