TEKNO®
construction chemicals

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Teknobar C

Carbon Fiber Rod

Product Description

Epoxy impregnated, carbon fiber rod, cured in unidirectional form.

Areas of Usage

- In slabs, girders and bridges where the carrying capacity is to be increased,
- With the column strengthened,
- In the sagged upholstery,
- On beams and balconies,
- In bridges with load increments,
- If there is a lack of facilities,
- In case of cut-off of the masonry and damage of the building elements,
- It is used in the restoration of historical monuments.

Features and Benefits

- It is very light, it does not increase section if it is very thin,
- Very high strength,
- The modulus of elasticity is very high,
- The chemical resistance is excellent,
- The application is easy and fast,
- Labor mistakes are very few,
- It has excellent fatigue strength.

Application Instructions

Surface Quality: Concrete should be strong and have sufficient strength.
Surface Preparation: The floor should be cleaned, free from oil, dirt, dust, water and moisture. Weak concrete parts should be broken and repaired with high strength repair mortar and restored.
Application Instructions: TEKNOBOND 400 is mixed proportionally. The stick is applied to the concrete and TEKNOBAR as thin layer. Rod; dust, oil and cores are cleaned and glued. The material only runs in the fiber length direction. No liability will be accepted for faults that occur during the application.

Application Notes / Restrictions

- It is an easy to apply material. The tin plate or spiral can be cut to the desired size. Static It is recommended to use it after the project is done.
- The material only runs in the fiber length direction. There is no resistance side by side.
- The product may irritate the skin. Work clothes, protective gloves, masks and glasses must be used. Hand washing cream can be applied before starting work. In case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Crystallization can be observed in the product if it remains long below 0°C. If the crystals are dissolved by bringing the product back to room temperature, it can be used without any problems.
- Do not add any foreign material into the product.
- Before the application, the design of the reinforcement project must be done by a civil engineer. It must be projected and held accountable.
- Practice is required to be done by experienced and competent people.

- The final check of the application should be performed by the universities / independent testing organizations / inspectors.
- Parts contacted with skin and hand must be washed with water and soap. In case of contact with eyes, consult a doctor.
- Immediately after application, before hardened, the equipment should be cleaned with TEKNO THINNER. The hardened epoxy mortar can only be mechanically cleaned.

Technical Data

General Information	
Color	Black
Package	In desired dimension
Shelf Life	Unlimited in Dry Storage Conditions
Radius	7,5 mm - 12 mm - 20mm
Height	3m
Flash Point	180°C
Tensile Strength	> 2800 MPa
Modulus of Elasticity	> 165,000 Mpa
Elongation at Break	1.7%

Technical data are approximate values obtained from the laboratory study of Tekno Construction Chemicals for finished products obtained at +20°C air temperature and 50% relative air humidity.