Chelfix EP3000 TIX

Epoxy Based, Two Componenet, Low Viscosity Primer

Product Description

Chelfix EP3000 TIX is a two component, solvent free, thixotropic, epoxy based saturating resin and adhesive. It is used for bonding Chelfix Wrap 300 and Chelfix Wrap 301 to the concrete surface.

Areas of Application

- It is safely used for bonding carbon fibers to columns, walls and beams in reinforcement systems.
- When applying Chelfix fibers by dry application method.
- As a primer for wet application system.

Advantages

- Excellent bond strength to many surfaces, like concrete, brick, and masonry.
- Provides excellent bonding carbon fiber to structure.
- Easy to mix, easy to apply with trowel and saturating rollers.Low creep.
- It is for manual saturation.
- Mechanical strength is high.
- It is applied on vertical and overhead surfaces.
- Has high chemical resistance.
- There is no need to apply a separate primer to the bottom.
- Solvent free.

Application instructions

Surface Quality: The surface of the application should be free from all kinds of dust, dirt, weak and volatile particles, cement grout residues, oil and dirt and be dry. Concrete bottom surface should be clean, strong and have sufficient compressive strength (at least 25 N/mm^2), its pull-off strength should be at least 1.5 N/mm^2. Concrete should be strong and have sufficient strength.

Surface Preparation: The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength. Weak concrete parts should be repaired and restored with high strength repair mortar. The plaster on the construction element must be removed, the surface must be cleaned, and necessary repairs should be made.

Mixing: After component B has been added to component A, mix it for 2-3 minutes with a low speed, electric stirrer (up to 400 rpm) until a homogeneous color is obtained.

Application Method / Equipment: Chelfix Wrap300 or Chelfix Wrap301 is cut and made ready according to the application. Prepared Chelfix EP3000 TIX mixture is put into concrete with a spatula or roller. it is then brought onto the Chelfix Wrap300 or Chelfix Wrap301 to ensure that the epoxy is adhered to the carbon by hand. in adhesion process, the underlying epoxy is ensured to come out with a slight knurled roller. This process is done in such a way

Chelfix EP3000 TIX

Epoxy Based, Two Componenet, Low Viscosity Primer

that the entire surface is homogeneously exposed to the epoxy top surface. lf the epoxy is insufficient, the Chelfix EP3000 TIX is again filled and the carbon fibers are saturated with epoxy.
Carbon fibers do not bum but epoxy can ignite after a certain temperature. Because of this reason, very thin epoxy is applied on the carbon plate, then the sand is spread in dry condition and plaster is applied on it. Spreading sand provides adherence between carbon fiber and plaster.

Application Notes / Restrictions

- In case of eye contact, rinse with plenty of waterfor about 15 minutes and immediately contact a physician.
- Keep away from foodstuffs and children.
- 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 Chelfix Thinner. The hardened epoxy mortar can only be mechanically cleaned.

Technical Data

Technical Properties :	
General Information	
Color (Resin and Hardener Mixture)	Off-White
Mixture Density (A + B)	1.10 ± 0.03 kg/lit
Application Information	
Applicable Ground Temperature	(+5 °C) - (+40 °C)
Mixture Ratio (Weight)	3.60 units A: 1.40 units B
Pot Life	~30 minutes
Performance Information	
Concrete Adhesion	≥ 4.0 N/mm^2 (Rupture from Concrete)
Bending Strength	≥ 40 N/mm^2
Pressure Resistance	≥ 80 N/mm^2
Tensile Strength	≥ 30 N/mm^2
Full Strength	7 days
Technical information is approximate value obtained from the Chelfix Construction Chemicals Laboratory works and are valid far the performance of the finished product in 27 days, which are obtained at + 20°C temperature and 50% relative air humidity rate.	

Application Instructions

Surface Preparation: The application surface should be free of all kinds of dust, dirt, weak and friable particles, cement sherbet residues, oil and grease and dry. Concrete substrate must

Chelfix EP3000 TIX

Epoxy Based, Two Componenet, Low Viscosity Primer

be clean, robust and sufficiently Compressive Resistance (at least 25 N/mm^2), tensile strength (pull off) at least1.5 N/mm^2. Application surface, to ensure maximum adhesion resistance, pressurized air holding, ete. it must be cleaned using methods.

Mixing: After adding component B to component A, mix it for 2-3 minutes until it has a homogeneous color (up to 400 RPM) with a low speed electric stirrer. Make sure that a continuous, nonporous layer is covered by the surface. lf necessary, apply two storey of primer. Chelfix EP 3000 NB can be applied with brush, roller or spray gun. Immediately after application, tools should be cleaned with Chelfix Thinner without hardening. Hardened product can only be mechanically cleaned.

Application Note/Restrictions

- Do not use it below the permitted minimum temperature to complete the hardening of the material. Low temperatures will slow hardening and high temperatures will speed hardening. Pot life will vary depending on the temperature.
- The floor temperature without curing should be at least 3°C above the condensation point.
- The product may cause sensitization by skin contact. Protective gloves, mask and goggles should be worn. in case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- From +5 °C and below the product stored fora long time can be observed crystallization. lf the crystals are dissolved, the product can be used without any problems by returning to room temperature.
- Color losses can be yellowing of the product, which is hardened due to direct sunlight (UV).
- In areas where water clear color and long term UV resistance is expected, Chelfix EP 3500 should be used.

Consumptions

1- 1.5 Kg/m^2 for 300 gr/m^2

Shelf Life

12 months in unopened original packaging.

Packing

5 Kg/ Set