

Chelfix EP 4000

Epoxy Based, Two Component, Thixotropic, Structural, Adhesive and Repair Mortar



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Product Description	Overhead and all kinds of anchoring in thixotropic consistency specially developed for horizontal applications, high strength epoxy material used in bonding and repair works.
Areas of Usage	<ul style="list-style-type: none">• In iron core planting, repairing all kinds of materials such as concrete stone• In the repair and isolation of large cracks,• It is used for adhering materials such as tiles, granites to polished surfaces.• In the assembly and bonding of all kinds of metal and steel parts to concrete and steel building elements.• In closing the outer surfaces in the crack injection and fixing of the injection packers,• Fixed railings and earthquake dampers in bridges and viaducts,• It is used to fix anchor elements.
Features and Benefits	<ul style="list-style-type: none">• Its application is a very easy material.• Water and gas are impermeable.• It is resistant to chemicals and abrasion.• It provides excellent adhesion for concrete.• Mechanical strength is very fast.• It will not retract.
Application Instructions	<p>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/mm²), its pull-off strength should be at least 1.5 N/mm²</p> <p>Surface Preparation: The holes for the ore planting should be at least 4 mm wider than the diameter of the iron. The surfaces should be cleaned with compressed air, oil, dust, dirt and water should not remain. The anchor bars must be ribbed, dry, oil-free and passive.</p> <p>Mixing: After component B has been added to component A, stir for 2-3 minutes until a homogeneous color with a low speed, electric stirrer (up to 400 rpm) is obtained.</p> <p>The mixture is first rubbed into the hole then to iron. The ironstones are slowly turned and thrust into the hole. To make sure that the hole is completely placed in the iron, iron is hit with hard objects such as sledgehammer, hammer etc. The next day, the iron is tried to be pulled by hand to make sure that the cured epoxy is hardened. This process gives an idea of whether or not the planting work is done correctly. It is advisable to carry out experiments with a tensile testing machine, especially for strengthening works.</p> <p>Chelfix EP 4000 can be applied successfully in various works such as fixing iron to iron, iron to brick.</p>
Application Notes / Restrictions	<ul style="list-style-type: none">• Do not apply if the temperature is below +5°C.• Solvent-free, cannot be thinned with thinner.• When mixing and applying, use rubber gloves and work gloves to protect your skin and eyes from exposure. Especially eyes should be carefully protected.• If it contacts with eyes, rinse your eyes with plenty of water for about 15 minutes and immediately contact a doctor.• Do not add any foreign material, water into the product.

- In extreme hot weather, the mixture should be made to be consumed because the product will harden immediately when mixed.
- The material spilled around and contaminated with application equipment can be cleaned with Clean Thinner.

Technical Data

General Information	
Color (A + B)	Grey
Mixture Ratio	3:1 (by weight)
Mixture Density	~ 1,60 kg / lt
Package	5 kg set
Application Information	
Shelf Life	12 months in unopened original packaging
Consumption	16 mm ribbed barrel, 20 mm hole, approx. 0,100 kg product is required to anchor.
Recoating Interval	< 24
Pot Life	~ 30 minutes (20°C)
Cleaning Time	~ 60 minutes (20°C)
Full Cure Time	7 days
Performance Information	
Pressure Strength	> 75 N/mm ² (TS EN 196-1)
Bending Strength	> 25 N/mm ²
Concrete Adhesion	> 4 N/mm ² (Rupture from Concrete) (TS EN 4624)
Adhesion to Steel	> 3,0 N/mm ² (TS EN 4624)
Bending Strength	> 20.0 N/mm ² (TS EN 196-1)
Service Temperature	-15°C to + 90°C