

Chelfix EP 4050D

Two component, solvent free, corrosion preventing anchorage and repair epoxy paste

Product Description

Chelfix EP4050 D is two components, solvent free, moisture tolerant, fast set corrosion preventing, anchorage and repair epoxy paste adhesive. It is high strength epoxy material used in anchorage, bonding and repair works.

Areas of Application

- Installation of hand rails, safety fence, wall ties, railway tracks and ground anchors.
- Fix traffic markers and road studs.
- It can be used as a general purpose fast set epoxy paste for filling gaps, holes and surface irregularities.
- In the repair and isolation of large cracks.
- For the mounting of elastic dilatation profiles.
- For the mounting of metal profile and carbon fiber sheets to concrete .
- For repairing damages on concrete and industrial floors, airport runways, highways.
- As pinning and adhering mortar in mounting of machine foundations, bridge, bearing and under crane rails.
- In closing the outer surfaces in the crack injection and fixing of the injection packers.
- For columns and concrete walls, anchorage and corrosion protection of connecting, rods and bolts.
- For bonding of steel elements, natural stone, glass and polyethylene elements.
- Anchor of reinforcement starter bars and dowel bars.



Advantages

- Fast set and easy to use.
- Rapid adhesive strength development.
- It is resistant to chemicals and abrasion
- High tensile and shear strength.
- Mechanical strength is very fast.
- It provides excellent adhesion for concrete.

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

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surface should be clean, strong and have sufficient compressive strength (at least 21 N/mm²), its pull-off strength should be at least 1.5 N/mm² 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. 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. 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. Chelfix EP 4050D can be applied successfully in various works such as fixing iron to iron, iron to brick.

Application Notes/ Restrictions

- 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
Application Information	
Shelf Life	12 months in unopened original packaging
Consumption	16 mm ribbed barrel, 20 mm hole, approx. O, 100 kg product is required to anchor
Recoat Interval	< 24
Pot Life	30 minutes (20°C)
Cleaning Time	60 minutes (20°C)

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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)
Service Temperature	-15°C to + 90°C

Standards

Chelfix EP4050 D complies with AASHTO T237-73, Type II, Slant Shear, Bond Strength & Gel time.

Chemical resistance

Resistant against: Dilute acids, dilute and concentrated alkalis, cleaning detergents and disinfectants, herbal, mineral and animal oils, fresh water and sea water, diesel, gasoline, alcohol and many other solvents.

Packaging

Chelfix EP4050 D is available in 5, 10 and 20 Kg/ packs.

Disposal

Empty packings can be disposed to collection bins according to regional/local regulations or recycling rules. Dispose used waste materials as construction waste materials after drying and hardening. It is dangerous to dispose by burning the product remnants.

Safety Information

Keep the products out of reach of children. Keep the lids of the products closed. It is recommended to use gloves and goggles during application. In case of contact with skin, wash immediately with soap. In case of contact with eyes, immediately consult a doctor. For more information, please refer to the material safety data sheet.

Fire

Chelfix EP4050 D is nonflammable .