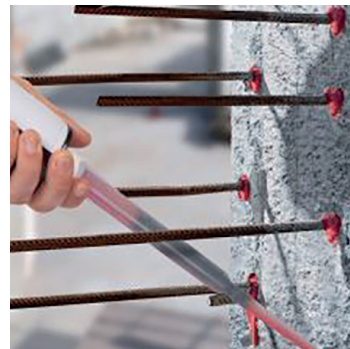


KeyFix104 P

Thixotropic, Polyester-resin Based,
Two Components,
Cartridge Type Anchoring Material



Product Description

The Injection Adhesive is a polyester-resin based, two components, thixotropic, fast curing anchorage product for bonding threaded rods and reinforcing steel in concrete, masonry or natural stone.

Both components are contained in the cartridge and mixed when dispensed through the static mixer. The Injection Adhesive is injected directly into the drilled hole or perfo sleeve with a dispenser gun. The anchoring element is inserted into the filled hole (perfo sleeve) by hand. After the adhesive has cured, the anchoring element can have the load applied.

Areas of Application

- Suitable for most construction base materials as concrete, masonry, natural stone.
- In anchors of bolts and pins.
- Accessories and connecting rods; concrete, hollow or filled bricks, etc. in anchors and repairs.
- It is used as a fast-curing anchoring adhesive for reinforcing steel, threaded rods, bolts and special fastening systems.
- In the planting of metal sprouts.
- In prefabricated member anchors.
- Fixing of injection pikers and apparatus.
- Central heating and ventilation etc. installation of pipes and fittings.

Advantages

- Fast curing.
- Thixotropic: non-sag in vertical and overhead applications.
- It hardens very quickly and gains mechanical strength very quickly.
- Low wastage.
- Its application is easy, it saves time.
- It is pasty; sagging, overhead applications can be used easily.
- It has high resistance against chemical substances.
- Can be used as a repair adhesive.
- Sealed drill-hole.
- Suitable for many anchoring elements e.g. threaded rods, female-thread sleeves, concrete steel, hooks, screws etc.

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. The concrete lower surface must be clean, strong and have sufficient compressive strength.

Surface Preparation: The application surface should be cleaned using methods such as applying compressed air to maintain maximum adhesion strength. Drill the hole in the required diameter and depth with hammer drill. The hole diameter and depth should be according to the size of the anchor element to be used. The opened hole should be cleaned starting from the bottom with a round wire brush and compressed air. No foreign matter such as dust, dirt, oil, etc. should remain. Press the trigger until the two separate components in the cartridge come out of the static mixer. Slowly pull out the cartridge while inserting the resin, beginning at the bottom of the hole. Make sure there are no air gaps inside. Extension tip can be used in deep holes. Insert the anchor element by rotating. Then some resin has come out, the anchor element should be placed in the hole in the resin gelling period. During hardening the anchorage element must never be moved or loaded. Work clothes and protective gloves, glasses and gloves suitable for work and worker health should be used during application. Due to the irritating effects of cured materials, the components should not come into contact with the skin and the eye, and should immediately be washed with plenty of water and soap in case of contact.

Technical Data

Pot Life	~ 7 -10 minutes (20°C)	
Full Curing	7 days	
Recoatability	20°C 1 hour	
Cleaning Time	~ 45 minutes (20°C)	
Service Temperature	0°C to +80°C	
Pressure Resistance (7 days)	60-70 Mpa	(TS EN 196-1)
Adherence (Concrete Surface, 7 days)	> 4 Mpa (Rupture from Concrete)	(TS EN 4624)
Bending Strength (7 days)	18-20 Mpa	(TS EN 196-1)
Extraction Strength	< 0.6 mm (under 75 kN load)	(EN1181)
Tensile Load Impact Creep	< 0.6 mm (after 3 months under 50 kN load)	(EN1544)
Standard	According to	(TS EN 1504-6)
Packaging	KeyFix104 P is available in 410 ml cartridges.	
Shelf Life	12 months in unopened original packaging.	

Technical data are approximate values obtained from the laboratory study of Chelfix Construction Chemicals for finished products obtained at +22°C air temperature and 55% relative air humidity.

Cleaning

Immediately after application, before hardened, the equipment should be cleaned with Chelfix Thinner. The hardened polyster mortar can only be mechanically cleaned.

Application Notes / Restrictions

- Use anchoring anchors (Concrete, bricks or blocks) to fix anchoring material to hollow material. Do not use the first mixture out of the gun.
- Open the door by turning it and remove it, insert a static mixer tip. Place the cartridge in the gun and start applying. When the application is interrupted, the static mixer tip may be left on the cartridge after the pressure in the gun has been drained.
- If the resin has hardened in the static mixer, a new tip must be fitted before starting work. When storing an opened cartridge, remove the static mixer by rotating it, clean the cartridge mouth with a clean, dry cloth, and close the lid.
- Contains styren.
- Combustible.
- Harmful by inhalation. Skin and eyes may be irritated.
- Keep away from children's reach.
- Do not breathe. Use in a well-ventilated area. The product may irritate skin. Work clothes, protective gloves, masks and glasses must be used. Protective cream can be applied to hands before starting work. in case of grout contact with eyes, eyes should be washed immediately with warm water and consult a doctor.
- Parts contacted with skin and hand must be washed with water and soap. in case of contact with eyes, consult a doctor.

Temperature and Curing Time

Surface Temperature (OC)	Workability Time (min.)	Curing Time (min.)
-5	50	90
5	21	50
15	6	35
25	3	30
35	2	25