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construction chemicals

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Teknobond 401

Styrene-Free Cartridge Anchor Material

ETA-17/0454

Product Description

Two-component, styrene-free, moisture-tolerant, thixotropic, cartridge chemical anchor.

Areas of Usage

- Rebars and tie rods; concrete, hollow or solid brick, etc. in anchoring and repairs.
- In metal ore planting, prefabricated element anchors, fixing of injection packers and apparatus.
- Anchors of bolts and pins, central heating, ventilation, etc. in the assembly of pipes and plumbing.
- It is suitable for use with all kinds of anchoring elements in cracked and non-cracked concrete.
- It is used for bonding all kinds of building materials.

Features and Benefits

- It is odorless and can be applied indoors,
- Styrene-free
- It gains its mechanical strength quickly,
- It is easy to apply, saves time,
- It has a paste-like consistency, does not sag; It can be used easily in overhead applications.
- Protects equipment against corrosion.
- It has high resistance against chemicals.
- It can be easily applied even on damp surfaces

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. Starting from the bottom of the hole, gently pull out the cartridge while inserting the resin, being careful not to leave any air voids inside. Extension tip can be used in deep holes. Insert the anchor element by rotating. Once 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.

Application Notes / Restrictions

- Use anchor dowels to fix the anchor material to hollow materials (bricks or blocks). Do not use the first mixture coming out of the gun.
- Does not contain styrene.
- The places that come into contact with the skin and hands should be washed with soap and water. In case of contact with eyes, consult a doctor.
- Immediately after application, before it hardens; tools; It should be cleaned with TEKNO THINNER.
- Hardened mortar can only be cleaned mechanically.

- Use only in well ventilated place.
- The product may cause skin irritation. Protective gloves, masks and goggles should be used. Before starting work, a protective cream can be applied to the hands. In case of contact of the mortar with the eyes, the eyes should be immediately washed with warm water and consult a doctor.
- Chemical anchor can be applied with M8-M10-M12-M16-M20-M24-M27- M30 rods (with internal and external threaded rods).
- The product must be usable in holes drilled with hammer drill and core drill and has ETA approval, which includes automatic cleaning with the help of a dust-free drill bit.
- In case the drilling is done with a drill, a dust-free safeset will be used.
- The product can be applied in dry, slightly damp and water-filled holes.
- The shock load of the product is included in the test reports.
- In order for the material to be applied, the cartridge must be stored between +5° C / +25° C.
- The product can be applied in conditions where the main material (concrete) is in the temperature range of -5 ° C / +40 ° C.

Technical Data

General Information		
Package	410 ml cartridges	
Shelf Life	12 months in unopened original packaging	
Application Information		
Pot Life	7-10 minutes (20°C)	
Full Curing	7 days	
Cleaning Time	~ 45 minutes (20°C)	
Service Temperature	-40 °C to +80°C	
Performance Information		
Pressure Resistance (7 days)	90 N / mm²	(TS EN 196-1)
Load class to which it is exposed	Seismic loading	
Bending Strength (7 days)	15 N/mm²	(TS EN 196-1)
Extraction Strength	≤ 0.6 mm (under 75 kN load)	(EN 1181)
Tensile Load Impact Creep	≤ 0.6 mm (after 3 months under 50 kN load	(EN 1544)
Standard	According to TS EN 1504-6 / ETA 001	

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.

Curing Speed:

Curing Temperature	Gel Time	Curing Time
-10°C - +4°C	> 30 dk	> 24 saat
+20°C - +35°C	< 30 dk	< 8 saat