ANCHOR PE ETA

CERTIFIED ADHESIVE FOR FAST ANCHORING

Certified ETA (European Technical Approval) two-component polyester-based adhesive for anchoring in stone, concrete, or brick. It is intended for quick fixing medium loaded anchors in concrete where a European certificate is required.

PROPERTIES

- Fast curing.
- For internal and external use.
- Also suitable at low temperatures, even down to -10 °C, cartridge stored at 20 °C.
- High adhesive strength, so it can withstand high loads.
- Use in wet and dry concrete.
- Simple extrusion and injection.
- It does not slide on vertical surfaces.
- It does not drop, you can use it above head.
- Solvent and styrene free.
- Odorless.
- Temperature resistant from - 40 °C to 80 °C.
- Also suitable for filling holes and cracks.
- Small shrinkage during curing, so adhesive is suitable for filling larger holes.
- Economic adhesive, excellent ratio between quality and price.

TESTS AND CERTIFICATES

ETAG 029 Metal anchoring in concrete CE mark

AREA OF USE

- For chemical anchoring of medium-load reinforcing bars in concrete and wall where the European certificate is required.
- As a repair mortar or adhesive for concrete elements.
- As an adhesive for facade elements, wooden structures, metal structures, consoles, fences, sanitary fittings, pipes.
- The adhesive does not swell during curing and is therefore suitable for loads placed near facilities' edges.
- It is used for the structural adhesion of reinforcing bars and installation of screws in newly built buildings or in the renovation of prefabricated concrete elements.
- Suitable for fixing doors, fences, blinds, antennas, consoles, cable reinforcement, and industrial machines.

TEHNICAL DATA

Fresh adhesive

Curing mechanism:	chemical reaction
Appearance:	A component – light gray paste B component - black paste mixture - gray paste

Bonding time/curing time:		
Surface temperature during installation	**Bonding time**	**Minimum curing time in dry concrete ****
–10 °C*	50 min	240 min
–5 °C*	40 min	180 min
5 °C	20 min	90 min
15 °C	9 min	60 min
25 °C	5 min	30 min
35 °C	3 min	20 min

* Adhesive temperature must be at least 20 °C.

** Minimum curing time in wet concrete is doubled.

Full curing after 24 h.

Cured adhesive

	Standard	**MPa (N/mm^2)**
Compressive strength	EN ISO 604 / ASTM 695	43,5
Flexural strength	EN ISO 178 / ASTM 790	15,9
Flexural module	EN ISO 178 / ASTM 790	2803
Tensile strength	EN ISO 527 / ASTM 638	9,3
E Modulus	EN ISO 527 / ASTM 638	4874,5
VOC Content		A+

INSTRUCTION FOR USE

- Mortar and concrete must be older than 28 days. The bore must not be greasy and it has to be thoroughly cleaned with a brush and blown out with air.

Dimensioning bores for anchor screws:							
Anchor	M8	M10	M12	M16	M20	M24	M 30
Anchor diameter (mm)	8	10	12	16	20	24	30
Bore diameter (mm)	10	12	14	18	22	28	35
Bore depth (mm)	80	90	110	125	170	210	280
Distance from the edge (mm)	80	90	110	125	180	220	280
Spacing between anchors (mm)	160	200	240	320	400	450	520
Recommended load in concrete C20/25 kN - tensile	8,36	11,79	17,29	24,93	38,14	50,29	68,07
Recommended load in concrete C20/25 kN - shear	5,14	8,57	12,00	22,29	34,86	50,29	81,43

Installation of anchors in massive materials - stone, concrete:

- Drill the bore with an impact drill perpendicular to the surface to the required bore depth.
- Clean the bore well with a round brush, which has a larger diameter than the bore, and blow it out with air.
- We can use a hand pump. Blow out at least 4 times from the bottom of the bore.
- Unscrew the cap, pull the foil from the cartridge, cut it off at the cartridge thread. Screw the static mixer tightly onto the cartridge. Make sure both components are in a static mixer.

- Place the cartridge in the gun and start squeezing. The adhesive is well mixed when it is of a uniform grey colour. The first 10 cm of the mass must not be used for anchoring.
- Fill the bore from the bottom to the top.
- Fill approx. 2/3 of the bore, but ensure that the entire space between the wall and the anchor along the entire depth is filled.
- Make sure the anchor is dry and clean.
- The anchor is pressed into the filled bore while turning it slowly and the adhesive must come out of the bore on the side. Remove excess adhesive.
- Care must be taken to insert the anchor before the open time has elapsed.
- The anchor must not be moved or loaded during curing.

Installation of anchors in hollow bricks:

- Drill the holes with a suitable drill.
- Clean the bore well with a round brush, which has a larger diameter than the bore and blow it out with air
- Insert a sleeve with holes of appropriate diameter and length into the bore.
- We do the same as above, except that we fill the entire sleeve with adhesive.

PACKAGING

- 300 ml cartridge.

STORAGE

18 months at a temperature between +5 °C to +25 °C in the original sealed packaging. Do not expose to direct sunlight.

HEALTH, SAFETY, HANDLING AND DISPOSAL INFORMATION

Additional safety information, safe handling instructions, information on personal protective equipment, and disposal information can be found in the safety data sheet. The safety data sheet is available on request. You can also obtain a copy from your TKK sales representative.

WARNING

The instructions are based on our tests and practical experience. However, due to specific conditions and working methods we recommend preliminary tests for each application.

TKK d.o.o.
Srpenica 1, 5224 Srpenica, Slovenia
+386 5 384 13 00, tkk.si