TEKAFIX
ANCHOR PE-1

PROPERTIES

- Fast curing.
- Ideal for indoor and outdoor usage.
- Can also be used at low temperatures, up to -10°C; cartridge has to be stored at 20°C.
- It can be applied with a normal cartridge gun.
- Does not slump on vertical surfaces.
- Does not drip; can be used on over-the-head surfaces.
- Resistance to temperatures ranging between -40 and +80°C.
- Excellent adhesion to all building materials.
- Economical repair.

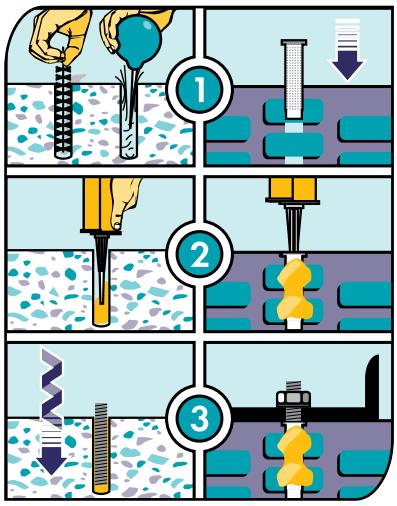
USE

- For fastening anchors supporting medium loads in walls, brickwork and masonry.
- Used as sanitation mortar or adhesive for concrete components.
- Used as adhesive for façade components, wooden and metal constructions, brackets, fences, sanitary implements, pipes, blinds.
- The adhesive does not expand during hardening and is therefore appropriate for loads placed near facilities' edges.
- Used for structural hardening of bars and mounting of bolts in newly erected buildings or renovations of prefabricated concrete components.
- Excellent for fixing doors, fences, blinds, aerials, consoles, cable reinforcement and industrial machines.

TECHNICAL DATA

Fresh sealant:

Hardening mechanism	chemical reaction
Appearance	Component A – light grey Component B – black paste Mixture – grey paste



Tekafix Anchor PE-1
is two component polyester based chemical anchoring resin system. It is designed as a fast curing high strength resin fixing anchor for medium loads and is suitable especially for lower strength substrates and lower load fixings.

Working and curing time

Substrate temperature (°C)	Working time (min)	Min. curing time in dry concrete (min)	Min. curing time in wet concrete (min)
-10*	50	240	X2
-5*	40	180	X2
5	20	90	X2
15	9	60	X2
25	5	30	X2
35	3	20	X2

* *Cartridge temperature must be at least 20°C; full cure: 24 hours*

Hardened sealant

	Standard	MPa (N/mm^2)
Compressive Strength	EN ISO 604/ASTM 695	41,8
Flexural Strength	EN ISO 178/ASTM 790	14,1
Flexural Modulus	EN ISO 178/ASTM 790	2589,6
Tensile Strength	EN ISO 527/ASTM 638	7,4
E Modulus	EN ISO 527/ASTM 638	4365,5
VOC Content		A+ Rating

APPLICATION

Surface preparation

Mortar and concrete must be older than 28 days. The borehole must be dry, fat free and thoroughly cleaned with a brush and blown out with compressed air.

Threaded rods – Installation parameters

Anchor	*M8*	*M10*	*M12*	*M16*	*M20*	*M24*
Φ of anchor (mm)	8	10	12	16	20	24
Φ of bore (mm)	10	12	14	18	24	28
Bore depth (mm)	80	90	110	125	170	210
Minimum element thickness (mm)	130	140	160	175	220	260
Minimum distance from bore (mm)	120	135	165	188	255	295
Minimum distance between anchors (mm)	80	90	110	125	170	210
Recommended strength in concrete C20/25 kN – tensile strength	9,1	8,7	12,0	17,3	27,2	34,0
Recommended strength in concrete C20/25 kN – shear strength	5,1	8,6	12,0	22,3	34,9	50,3

Installation parameters into massive materials like stone or concrete

- Drill a hole in the substrate to the required embedment depth using the appropriately sized carbide drill bit.
- Clean the borehole thoroughly with a round brush with a diameter bigger than that of a borehole and blow it out with air.
- Use a manual pump. Blow out at least 4 times from the back of the bore hole.
- Remove the threaded cap from the cartridge. Pull out the foil bag and cut it near to the thread.
- Insert the cartridge into the dispenser gun. Discard the initial trigger pulls of adhesive. Discard the first 10ml of resin.
- Inject the adhesive starting at the back of the hole.
- Fill holes approximately 2/3 full, to ensure that the annular gap between the anchor and the concrete is completely filled with adhesive along the embedment depth.
- Before use, verify that the threaded rod is dry and free of impurities.
- While turning the anchor slowly place it into the filled up borehole. The adhesive should come out at the side.
- Install the threaded rod to the required embedment depth during the open working time.
- The anchor can be loaded after the required curing time.

Installation parameters into hollow wall

- Drill a hole in the substrate to the required embedment depth using the appropriately sized carbide drill bit.
- Clean the borehole thoroughly with a round brush with a diameter bigger than that of a borehole and blow it out with air.
- Use a manual pump. Blow out at least 4 times from the back of the bore hole.
- Insert the sleeve of suitable dimensions.
- Repeat the above steps, only insert the mixer to the end of the sleeve and start injecting the resin until the sleeve is completely full.

PACKING:

- 300 ml Foil Bag Cartridges (12 pcs per carton)
- 165 ml Foil Bag Cartridges (12 pcs per carton)

STORAGE:

12 months in a dry, cool place at temperature between +5°C and 25°C, in the originally sealed packaging. Do not expose to direct sunlight.

HEALTH, SAFETY, HANDLING AND DISPOSAL INFORMATION

Additional information on safety, safe handling instructions and personal protective equipment as well as disposal information are available in a safety data sheet. Safety data sheet is available upon request. You can also ask your TKK distributor for a copy.

ATTENTION:

The information supplied is accurate to the best of our knowledge and is based on reliable tests and practical experience. Due to specific conditions and working methods we recommend that you perform preliminary tests prior to any application of our products.