TEKAFIX
ANCHOR VE-2

PROPERTIES

- Fast curing.
- High durability.
- High bond strength with high load resistance.
- Ideal for indoor and outdoor usage.
- Can also be used at low temperatures, up to -10°C.
- Suitable for application both in dry and wet concrete.
- Good chemical resistance.
- Does not slump on vertical surfaces.
- Does not drip: can be used on over-the-head surfaces.
- Styrene free; low odour.
- Resistance to temperatures ranging from -40 and +80°C.
- A+ Rating VOC content.
- Economical repair.

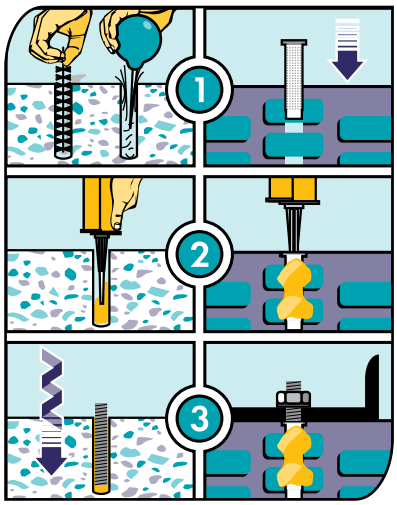
USE

- For fastening anchors supporting heavy and normal loads in stone, concrete, lightweight concrete, bricks, wood.
- For heavy loads and materials which are constantly under water (ports, tunnels).
- 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.
- 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 VE-2
is two component chemical anchoring system. Styrene free. It is designed as a fast curing high strength resin fixing anchor for high loads and medium loads and is suitable especially for fixing in damp environments or environments with chemical exposure.

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	45
Flexural Strength	EN ISO 178/ASTM 790	15,4
Flexural Modulus	EN ISO 178/ASTM 790	3111,7
Tensile Strength	EN ISO 527/ASTM 638	9,4
E Modulus	EN ISO 527/ASTM 638	5488,5
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

Sidro	*M8*	*M10*	*M12*	*M16*	*M20*	*M24*	*M30*
Φ anchor diameter (mm)	8	10	12	16	20	24	30
Φ borehole diameter d_0(mm)	10	12	14	18	24	28	35
Borehole depth (mm)	80	90	110	125	170	210	280
Minimum distance between anchors (mm)	80	90	110	125	180	220	80
Minimum distance from the edge (mm)	40	50	60	80	100	120	150
Max Torque T_{inst} (Nm)	10	20	40	80	120	160	200
Recommended Load (kN) Tension	9,07	14,36	17,11	24,78	38,15	48,57	66,5
Recommended Load (kN) Shear	5,14	8,57	12,0	22,29	34,86	50,29	81,43
Minimum element thickness (mm)	130	140	160	175	220	260	350

Minimum thickness of a link h_{min} (mm) = h_{ef} + 30 mm ≥ 100 mm

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:

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

STORAGE:

12 months in a dry, cool place at temperature between +5 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

Instructions contained in this document are based on our research and experience, however, due to specific conditions and working methods we recommend that you perform preliminary tests prior to any application of our products.

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