KREVO Anchor EP

High-performance pure epoxy anchoring resin | Cartridge-applied | High-load fixings

PRODUCT DESCRIPTION

KREVO Anchor EP is a two-component, pure epoxy resin anchoring grout formulated for fixing starter bars, threaded studs, anchor bolts and sockets in rock, concrete, brick and solid masonry. The cartridge system is suited to horizontal and vertical installations where high bond strength and controlled setting are required.

ADVANTAGES

- High-load anchoring resin with good dimensional stability and resistance to vibration.
- Styrene-free formulation and low-VOC performance specification.
- Suitable for horizontal and vertical fixing, including locations near free edges subject to design.
- Designed for use with anchor bolts, starter bars, threaded rods and anchor sockets.
- Can be considered for potable-water contact subject to relevant product approval.

TYPICAL USES

Starter bars and structural rebar dowels • Threaded rod and anchor bolt fixings • Steel anchor sockets • Connections in concrete, masonry, brick or rock • Structural rehabilitation and strengthening works.

PRODUCT INFORMATION

PARAMETER	SPECIFICATION
Chemical base	Two-component, pure epoxy cartridge anchoring grout
Application	Horizontal and vertical installation in sound mineral substrates
Typical substrates	Concrete, brick, solid masonry and rock
Typical fixings	Threaded studs, starter bars, anchor bolts and sockets
Nominal packaging	400 mL cartridge
Storage temperature	+5 °C to +30 °C; dry, shaded and frost-free
Shelf life	24 months under the stated storage conditions
VOC specification	< 50 g/L

TECHNICAL PERFORMANCE SPECIFICATION

PROPERTY / TEST METHOD	SPECIFIED VALUE
7-day compressive yield | ASTM D695	65.5 MPa
7-day compressive modulus | ASTM D695	1,310 MPa
7-day tensile strength | ASTM D638	46 MPa
7-day elongation | ASTM D638	1.9%
Heat deflection temperature | ASTM D648	57 °C
24-hour water absorption | ASTM D570	0.40%
Linear coefficient of shrinkage | ASTM D2566	0.003
Permanent service temperature	−40 °C to +72 °C
Temporary service temperature	−40 °C to +120 °C

Application & System Data

KREVO Anchor EP | Gel / loading times, drilling, hole cleaning and injection procedure

GEL AND LOADING TIMES

TEMPERATURE	GEL TIME	LOADING TIME	GUIDANCE
5 °C	150 min	24 h	Low-temperature installation
20 °C	30 min	8 h	Typical moderate conditions
30 °C	15 min	4 h	Warm conditions
40 °C	8 min	2 h	Hot conditions; fast working
Site checks	Substrate temp.	Approved design	No load before curing

Do not disturb or load installed anchors before the stated loading period has elapsed. Actual working and curing times are affected by base material temperature, resin temperature, hole size and installation conditions.

TYPICAL ANCHOR INSTALLATION SEQUENCE

STAGE	METHOD / CHECK
1 | Drill	Drill to correct diameter and embedment per approved anchorage design.
2 | Brush & blow	Clean holes thoroughly using a nylon brush and clean air / blow pump.
3 | Prepare cartridge	Attach static mixer and dispense initial resin to waste until colour is even.
4 | Inject & insert	Inject from the hole base; insert fixing slowly with slight twisting motion.
5 | Cure & load	Leave undisturbed until loading time expires; tighten fixings only after cure.

HOLE DRILLING AND PREPARATION

Drill to the specified diameter and embedment depth using an air or rotary-percussive drill. For diamond-cored or non-percussive holes, roughen the bore sides adequately. Confirm hole geometry, reinforcement location, substrate integrity and the project engineer's approved anchorage design.

CLEANING & INJECTION CONTROLS

Brush the hole with a stiff nylon brush and remove drilling dust using clean compressed air or a blow pump. Clean water may be used when the approved installation method permits; the bore and sides must remain clean. Fit a static mixing nozzle and discard the initial resin until a uniform colour is obtained.

CONTROL POINT	REQUIREMENT
Hole condition	Correct diameter and depth, clean bond face; damp condition only where approved
Injection method	Static mixing nozzle; discard unmixed initial material, avoid entrapment
Load confirmation	Design verification and on-site proof tests before critical structural loading

Inject from the back of the hole while withdrawing the nozzle to minimize voids. Insert the fixing with a slow twisting motion, remove excess resin at the mouth and keep the fixing undisturbed until the required loading time.

ON-SITE VERIFICATION

Carry out project-specific trial anchors and pull-out / proof-load tests where specified. Confirm admissible tensile and shear loads based on the actual substrate, anchor grade, spacing, edge distances, embedment, temperature and relevant design standard before accepting the installed anchorage.

Installation & Product Support

KREVO Anchor EP | Threaded rod and reinforcing bar load selection, safety and global contacts

ANCHOR LOAD REFERENCE DATA

Indicative loads for preliminary selection. Verify KREVO resin performance, bar grade, anchor embedment and actual concrete conditions through approved design and site testing.

THREADED RODS | Carbon / stainless steel bar up to 1040 MPa UTS

BAR Ø mm	HOLE Ø mm	DEPTH mm	ULT. T kN	ULT. V kN	ALLOW. T kN	ALLOW. V kN
10	11	90	42	31	10.5	7.7
12	14	108	100	57	25	14
16	20	145	134	102	33	25
20	22	180	175	144	43	36
22	25	200	241	162	60	40
25	28	225	280	233	70	53
30	35	270	396	309	99	77

REINFORCING BARS | Grade 60 (USA)

BAR	HOLE Ø in	DEPTH in	ULT. T lb	ULT. V lb	ALLOW. T lb	ALLOW. V lb
#4	5/8	4 1/2	23200	11200	5800	2800
#5	3/4	5 5/8	32300	21000	8075	5250
#6	7/8	6 3/4	44400	32200	11100	8050
#7	1	7 7/8	49600	35400	12400	8850
#8	1 1/4	9	54800	38500	13700	9625
#9	1 3/8	10 1/8	59100	41600	14700	10400
#10	1 1/2	11 1/4	62600	44000	15600	11000

REINFORCING BARS | Grade 500 (Metric)

BAR Ø mm	HOLE Ø mm	DEPTH mm	ULT. T kN	ULT. V kN	ALLOW. T kN	ALLOW. V kN
10	12	90	28.6	21.6	14.3	14.4
12	16	110	58.0	31.1	29.0	20.7
16	20	145	98.9	55.3	49.4	36.9
20	25	180	134.5	86.4	67.2	57.6
25	32	225	145.7	135.0	72.8	90.0
32	38	290	175.3	221.2	87.6	147.5

INSTALLATION, SAFETY & QUALITY

Use trained applicators and suitable PPE. Clean the hole, avoid unmixed resin, observe the stated loading times, and follow the current KREVO SDS. Anchor performance depends on substrate, temperatures, spacing, edges, rebar grade and workmanship. Values, environmental claims and listed standard compliance require verification against KREVO product qualification records before formal certification or structural acceptance.

KREVO | GLOBAL CONTACTS

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