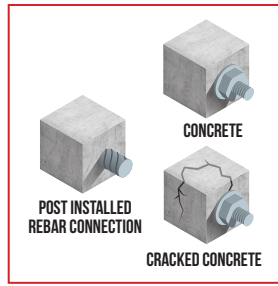


VINYLESTER CHEMICAL RESIN



FEATURES

Vinylester styrene-free resin

Used with:

- M8 to M30 zinc-plated and A4-70 stainless steel threaded rod.
- Ø8 to Ø32 reinforcing bars
- Ø8 - Ø25 rebar connection

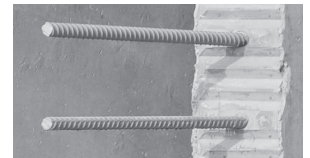
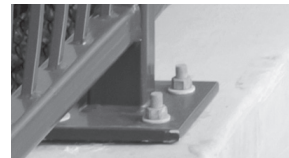
Advantages:

- ETA x 2 : Option 1 and Rebar
 - M8 to M30 threaded rod and Ø8 to Ø32 reinforcing bars in cracked/non cracked concrete.
 - Rebar connection (Ø8-Ø25)

- Very high mechanical resistance, including in aggressive atmospheres.
- Can be used under seismic conditions (C1 performance) for threaded rods (>M12) and reinforcing bars (>Ø12)
- Fire resistant (F180)
- Low odour
- Temperature range :
 - From - 40°C to +80 °C for rebar connection
 - From - 40°C to +120 °C for threaded rod

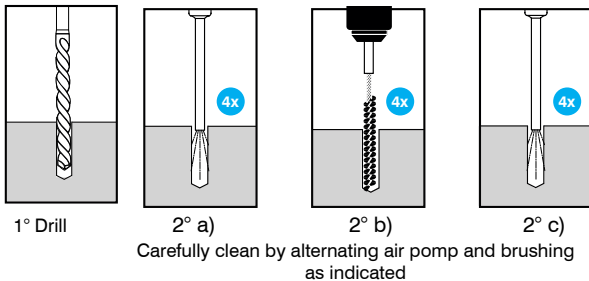
APPLICATION EXAMPLES :

- Railings, Anchoring scaffolding
- Metal gantries, Hollow block
- Bracket anchors, Joist end plates

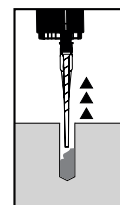


INSTALLATION

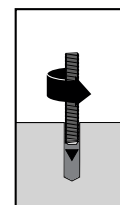
Concrete & solid brick



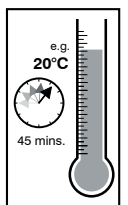
3° Attach the mixing nozzle to the cartridge. Before filling the hole, extrude first 5-10 cm out of the hole until the colour becomes evenly grey



4° Fill the hole 1/2 to 2/3 full with the resin from the bottom upwards



5° Insert the threaded rod by turning it slowly



6° Once the curing time is reached, fix the anchor with the max torque

CURING TIME

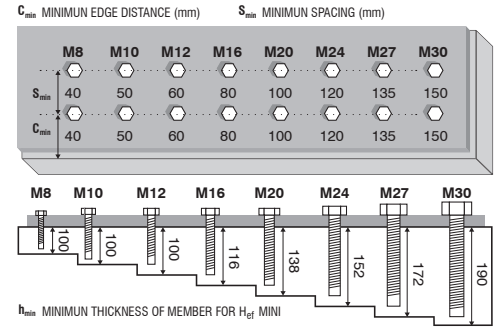
Concrete temperature	- 10°C	-5°C	0°C	+ 5°C	+ 10°C	+ 20°C	+ 30°C	+ 35°C
Maximum working time	90'	90'	45'	25'	15'	6'	4'	2'
Minimum Curing time on dry support	24h	14h	7h	2h	80'	45'	25'	20'
Minimum Curing time on wet support	48h	28h	14h	4h	160'	90'	50'	40'

For implementation to T° < 0°C, cartridge temperature must be between +15° C and +25° C
 For implementation to 0° < T° < 30°C cartridge temperature must be between +5° C and +25° C
 For implementation to T° > 30°C cartridge temperature must be < +20°C

THREADED RODS AND REINFORCING BAR RESIN : INSTALLATION DATAS

Concrete according to
ETA 10/0262

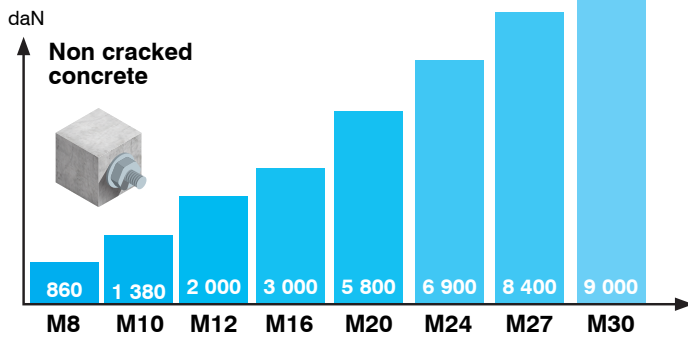
		M8	M10	M12	M16	M20	M24	M27	M30
Ø drill size (mm)	d_{cut}	10	12	14	18	24	28	32	35
	$h_{ef, mini}$	60	60	70	80	90	96	108	120
Standard anchor depth (mm)	$h_{ef, Standard}$	80	90	110	125	170	210	250	270
	$h_{ef, Maxi}$	160	200	240	320	400	480	540	600
Torque setting (N.m)	T_{inst}	10	20	40	80	120	160	180	200



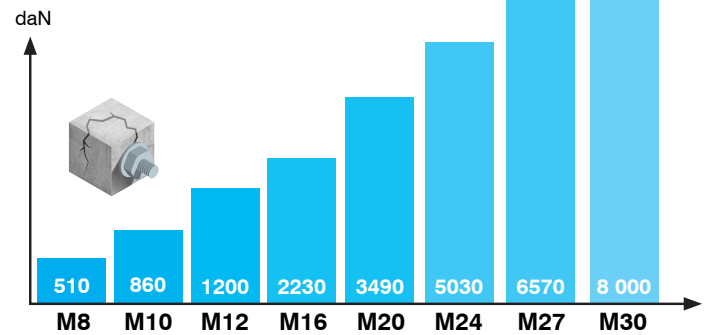
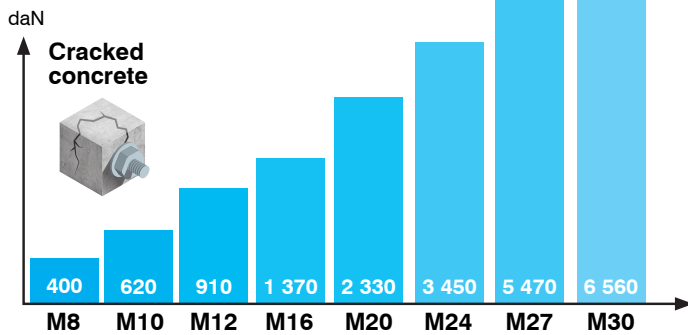
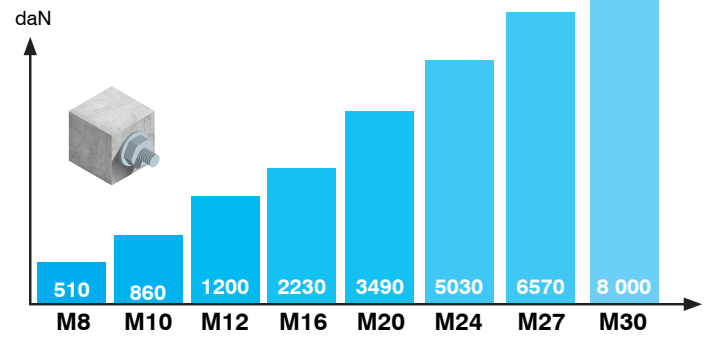
THREADED RODS AND REINFORCING BAR RESIN : RECOMMENDED LOADS

- Loads are calculated from characteristic values published in the ETA on which partial safety factors from the ETAG001 and a partial action f coefficient $\alpha_f = 1.4$ are applied.
- Values are given for standard anchor depths, in C20/25 wet or dry concrete, for 1 temperature range (24°C/40°C) with 5.8 zinc plated steel threaded rod.

TENSILE LOADS



SHEAR LOADS



REBAR CONNECTION : INSTALLATION DATA AND RECOMMENDED LOADS

Data for HA H500B rebar connection, for spacing $> 7 \varnothing$ and without edge influence with $\alpha_1 = \alpha_2 = \alpha_3 = \alpha_4 = \alpha_5 = 1$

		Ø8	Ø10	Ø12	Ø16	Ø20	Ø25
Ø drill size (mm)	d_{cut}	12	14	16	20	25	30
Minimum anchor length (mm)	$l_{db, mini}$	170	213	255	340	425	532
Standard anchor depth (mm)	$l_{db, std}$	270	340	410	550	690	860

