ANCHOR-1

New Generation high-performance chemical anchoring system.

Description

Anchor-1 is a new generation high-performance chemical anchoring system, suitable for rebar, threaded rods, screws, and specialized fixing systems in cracked or non-cracked concrete, hollow masonry, natural stone, etc. Ideal for connecting old and new concrete, fixing doors, fences, bases, machine anchoring, shelving, etc. Suitable for shallow or very deep holes in concrete, and for underwater applications. Compatible with anchors from M8 to M36.
ETA approved according to EAD 330087-00-0601 for post-installed rebar connections.

Substrate Material

- Cracked, uncracked concrete
- Solid and hollow masonry
- Solid Rock
- Hard natural stone
- Voided stone or rock

Uses/Application

- Canopies
- Hand Rails
- Safety Barriers
- Balcony Fences
- Machinery
- Post-install rebar connections

Features

- Suitable for use with close edge distance and small anchor spacing
- Suitable for dry, wet & flooded holes with no loss of performance.
- The glass fibre reinforced plastic nail, offers optimised retention forces
- Shallow anchoring depth of 35mm saves drilling time.
- A+ classification according to compulsory French VOC emissions regulation

Instructions

1. Installation on Concrete or Solid Stone

Drill a hole of the correct diameter and to the recommended depth. Clean the hole thoroughly using a nylon brush and remove all dust and loose particles with compressed air or a hand pump.
Unscrew the cap, cut near the metal clamp, and screw on the mixing nozzle. Discard the first 10 cm of material. Inject the mortar into the hole, starting from the back of the hole, fill it completely. Insert the anchor while slowly rotating it to ensure even distribution. Visually confirm that the hole is fully filled. The product fully cures after 24 hours.

2. Installation on Hollow Bricks or Artificial Stone

Drill the hole without using percussion. Remove dust and loose particles using compressed air or a hand pump. Unscrew the cap, cut near the metal clamp, and screw on the mixing nozzle. Discard the first 10 cm of material. Insert the perforated sleeve into the hole. Starting from the back, fill the sleeve completely, then insert the anchor while rotating it slightly until it reaches the base of the sleeve.

Working & Loading Times			
Cartridge Temperature	T Work	Base Material Temperature	T Load
10°C	30 min	10°C	5 hr
10°C to 20°C	15 min	10°C to 20°C	5 hr
20°C to 25°C	10 min	20°C to 25°C	145 min
25°C to 30°C	7.5 min	25°C to 30°C	85 min
30°C to 35°C	5 min	30°C to 35°C	50 min
35°C to 40°C	3.5 min	35°C to 40°C	40 min
	2.5 min		35 min
45°C	2.5 min	45°C	12 min

Technical Characteristics			
Property		Value	Unit
Compressive Strength	24hr	75	N/mm^2
	7 days	80	
Tensile Strength	24hr	11.5	N/mm^2
	7 days	12.2	
Elongation at Break	24hr	0.1	%
	7 days	0.1	
Tensile Modulus	24hr	3	GN/m^2
	7 days	4	
Flexural Strength	7 days	28	N/mm^2

Installation Parameters -Rebar								
Size		mm	**8**	**10**	**12**	**16**	**20**	**25**
Nominal Drill Hole diameter	d_o	mm	12	14	16	20	25	30
Diameter of cleaning brush	d_b	mm	14	14	19	22	29	40
Minimum Embedment depth	h_{ef}	mm	60	60	70	80	90	100
Maximum Embedment depth	h_{ef}	mm	160	200	240	320	400	480
Minimum Edge Distance	c_{min}	mm	40	40	50	70	80	100
Minimum Spacing	s_{min}	mm	40	40	50	70	80	100
Minimum member thickness	h_{min}	mm	h_{ef}+30 mm≥100mm			$h_{ef} + 2d_o$		

Installation Parameters -Threaded Rods								
Size		mm	**M8**	**M10**	**M12**	**M16**	**M20**	**M25**
Nominal Drill Hole diameter	d_o	mm	10	12	14	18	22	26
Diameter of cleaning brush	d_b	mm	14	14	20	20	29	29
Torque Moment	T_{inst}	Nm	10	20	40	80	120	160
Minimum Embedment depth	h_{ef}	mm	60	60	70	80	90	96
Maximum Embedment depth	h_{ef}	mm	160	200	240	320	400	480
Minimum Edge Distance	c_{min}	mm	40	40	50	70	80	100
Minimum Spacing	s_{min}	mm	40	40	50	70	80	100
Minimum member thickness	h_{min}	mm	h_{ef}+30 mm≥100mm			$h_{ef} + 2d_o$		

Storage:

Store indoors, away from direct sunlight, for up to 18 months (+5°C / +25°C).

Packaging:

300ml cartridges

Notes

Technical details, properties, recommendations and information on BAUER products are supplied in good faith. They are based on the company's research and experience, provided that they are stored and applied under normal conditions. As the method of using materials as well as project and environment conditions are beyond the control of the company in each individual application setting, the product user is held solely responsible for the result of application. No responsibility under any legitimate relationship can be substantiated against the company, based on the information set out hereunder. Product users are advised to refer to the latest revision of the technical manuals available.

Other information

BAUER BUILDING TECHNOLOGIES
Megara Industrial Estate, Attica
Tel: +30210 5744222 Fax: 30210 5740777
Email: info@netbauer.com
http// www.netbauer.com

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Qualitätsmanagementsystem
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