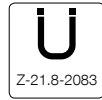


EJOT® Iso-Bar

Approved fastening element for retro-fitting medium-heavy to heavy attachments to ETICS facades.



Product Description

EJOT Iso-Bar is a thermally separated fastener with an M12 metric neck thread, made of stainless steel and additional sealing element. It is anchored using injection mortar and it can be fixed into concrete as well as into solid and perforated brick.

Field of application

For retro-fitting of medium-heavy to heavy attachments to ETICS facades. e.g.

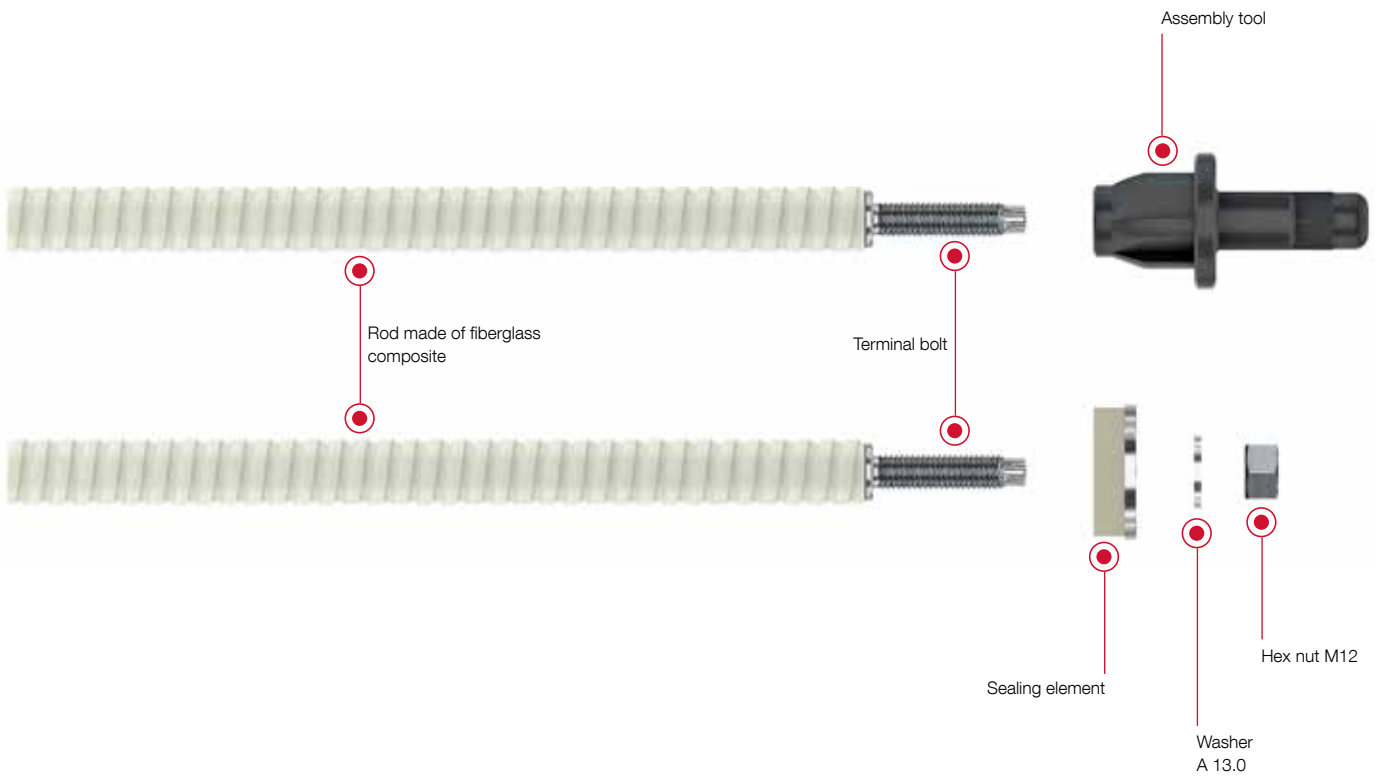
- Awnings
- Porch roofs
- Consoles, f.e. for air conditioning units
- Trellises

Benefits

- Low classified thermal bridge effect
- Subsequent, flexible installation
- Can be cut to length on site to suit the conditions of the substrate
- Small product variety for insulation thicknesses up to 300 mm
- Permanent seal against moisture - driving rain test according to DIN EN 12155
- Easy and safe installation with innovative assembly tools
- Expansion-pressure free installation
- When used in combination with Multifix USF winter mortar it can be installed at temperatures down to -20 degrees

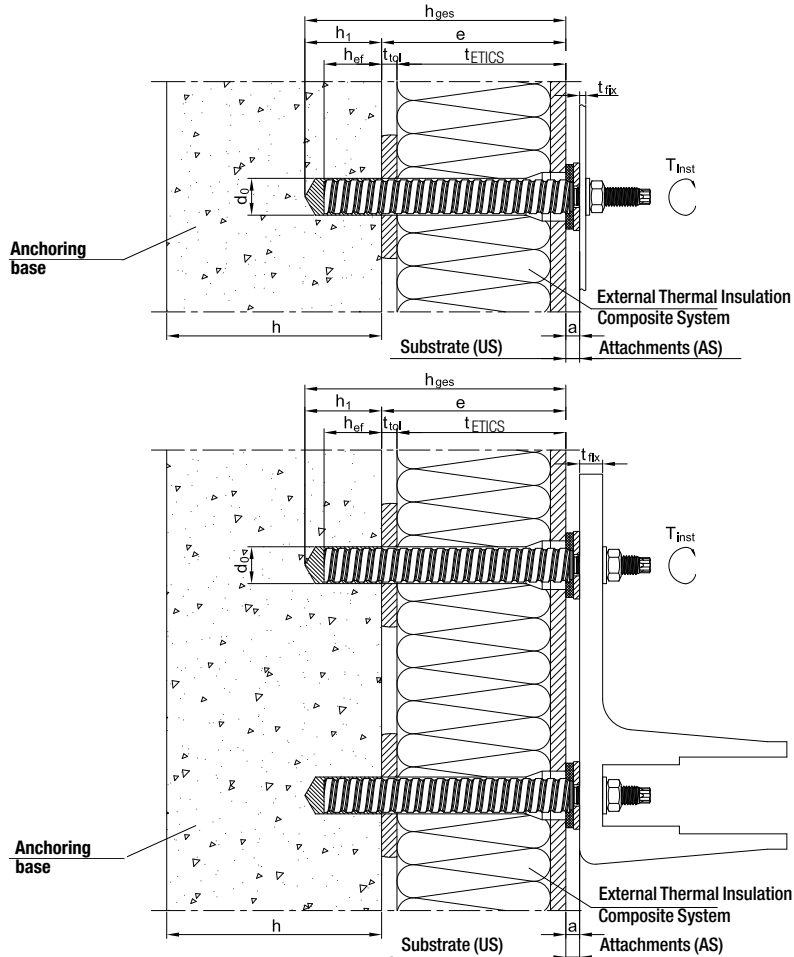


Youtube video of the EJOT® Iso-Bar in action
<https://youtu.be/bOyRR7gWhDk>



Application examples

Fixed with a distance – thermally separated



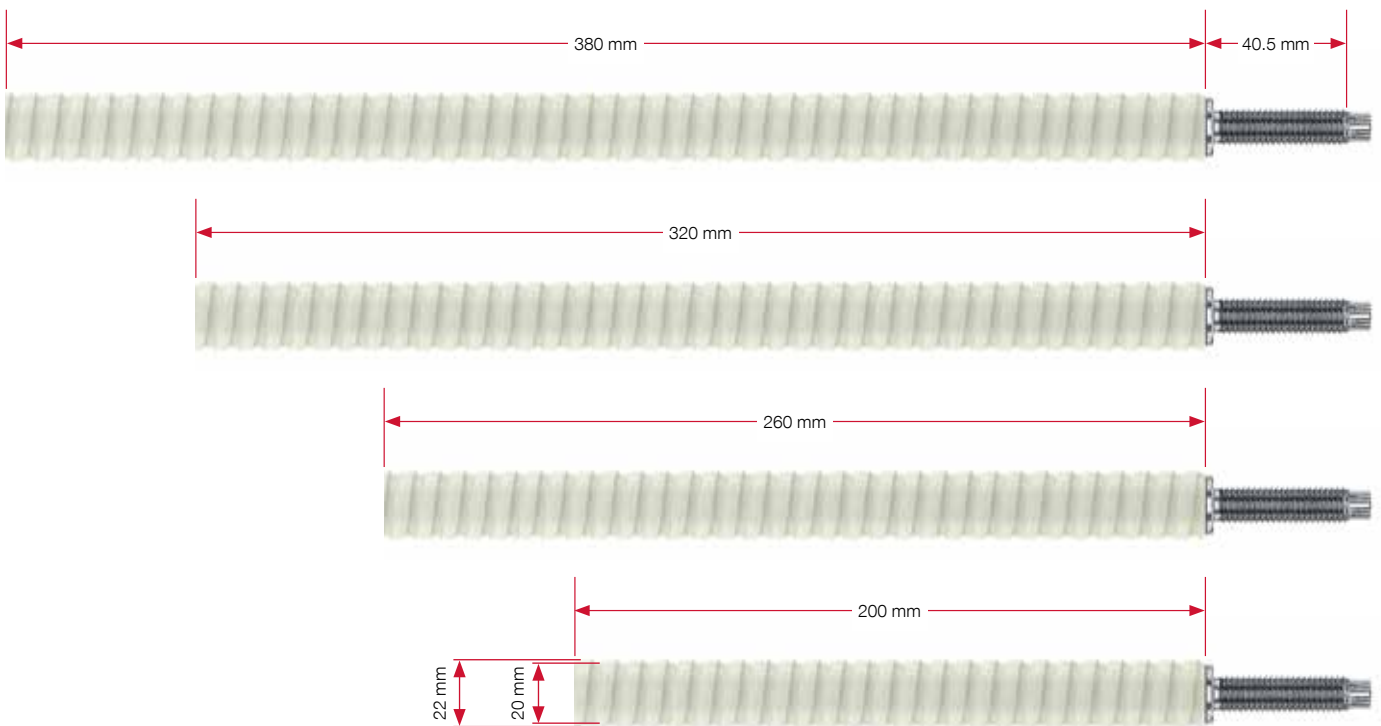
Technical specifications	
Approval	Z-21.8-2083
Nominal diameter	22 mm
Lengths and effective lengths	
Iso-Bar	max. effective length* concrete / masonry
Iso-Bar 200	160 / 120 mm
Iso-Bar 260	220 / 180 mm
Iso-Bar 320	280 / 240 mm
Iso-Bar 380	340 / 300 mm

*max. effective length = Thickness of non-bearing layers, e.g. glue, plaster, reinforcement, insulating material, etc.

Installation values for fixing the attachment	
Threaded connection M x l	M 12 x 35
Clamp thickness add-on part T_{fix}	≤ 25 mm
Installation values for anchoring in concrete (cracked and uncracked)	
Drill hole diameter d_0	24 mm
Min. installation depth $h_{ef,min}$	40 mm
Drill hole depth h_1	$h_{ef} + 10$ mm
Installation values for anchoring in masonry	
Drill hole diameter d_0	
Solid building material without mesh sleeve	24 mm
Solid and perforated building material with mesh sleeve	26 mm
Min. installation depth $h_{ef,min}$	80 mm
Drill hole depth h_1	$h_{ef} + 20$ mm

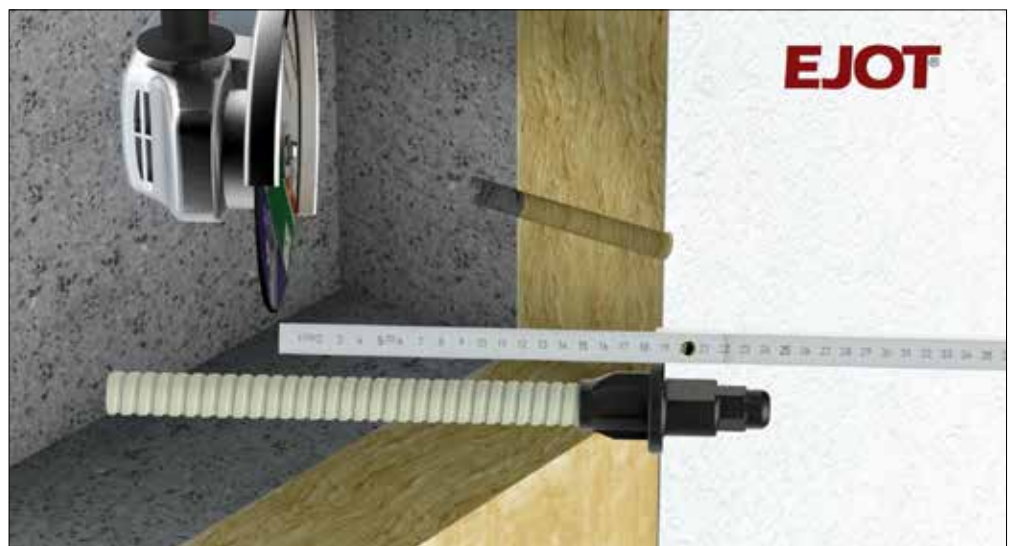
Flexible use – suitable for any insulation thickness!

Due to the possibility of cutting to length on site to suit the insulation thickness, a more manageable product range can be stored on site, also reducing storage space. The EJOT Iso-Bar is available in four different lengths and ensures flexible use on the construction site.



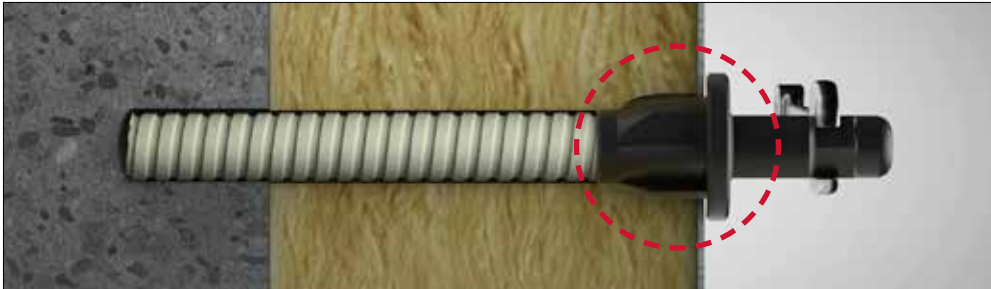
Precise cutting to length

Accurate and precise cutting to length of the Iso-Bar on site, ensures optimum adaptation to suit the substrate conditions. Do not use a bolt cutter for cutting to length!



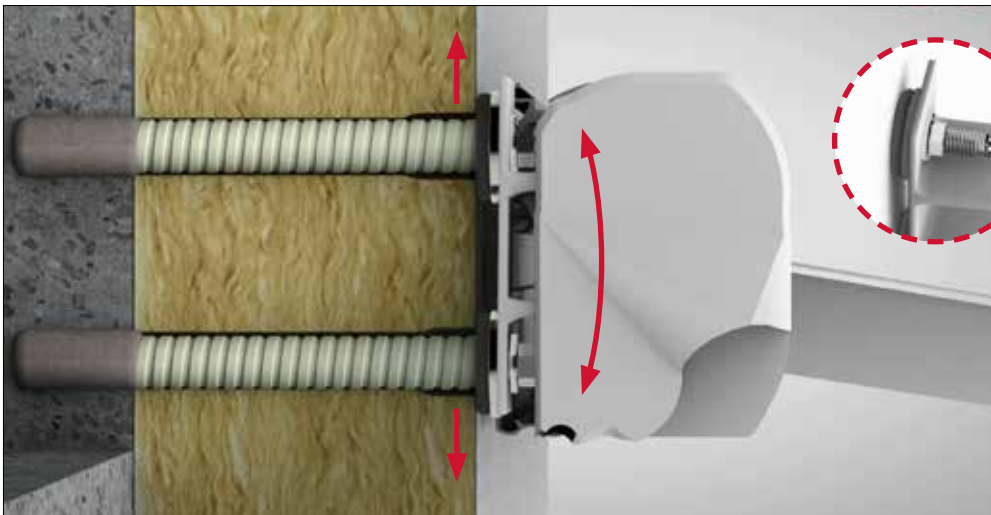
Advantages at a glance

The advantages of the EJOT Iso Bar show during installation and application.



Annular slit

An annular milled opening is created in the render using the installation tool.

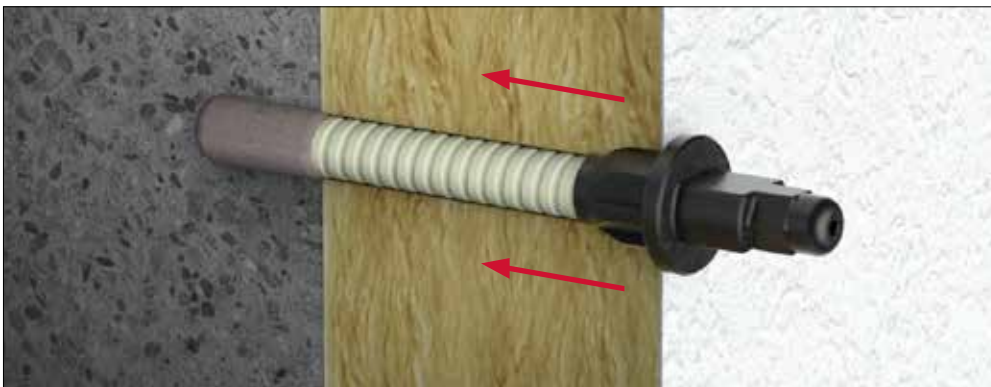


Unrestrained movement

The resulting annular slit allows unrestricted displacement of the attachment once installed.

The high-quality, elastic EPDM seal protects the ETICS against penetrating moisture

For render with a grain size > 3 mm the use of an elastic sealant between the seal and the render is recommended.

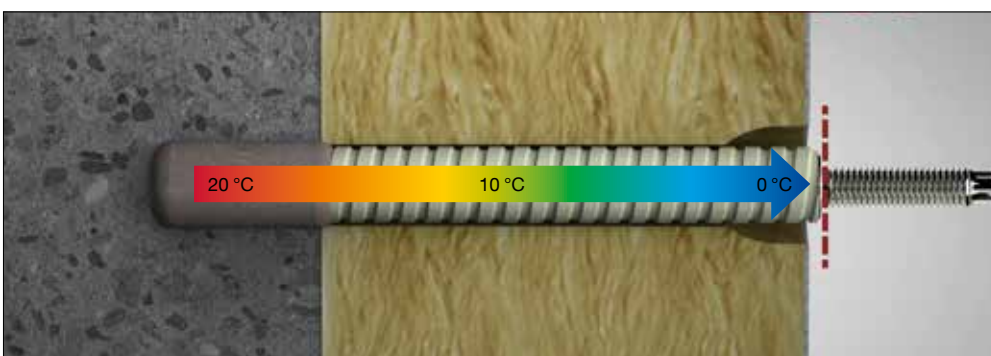


Defined setting position

Use the installation tool for a safe and easy installation.

The Iso-Bar simply pushes into the drilled hole until the collar of the installation tool, functioning as a predefined depth control, makes contact with the render.

Thereby ensuring the optimal axial and radial position of the mounting system. Damage of the render by displacement of the attachment under load is therefore prevented.

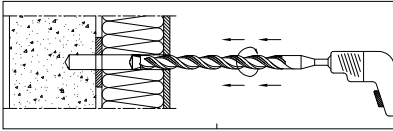


Thermal separation

The reinforced glass fibre plastic provides a proven minimal thermal bridge with a maximum load capacity, avoiding unnecessary heat loss and risk of internal condensation.

Mounting instruction

1. Drill hole

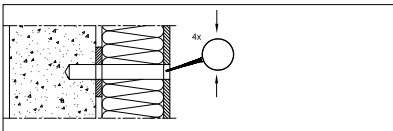


Mounting parameters see Z-21.8-2083 amendment 5 / note mounting instruction ETA compound anchor according to amendment 2.

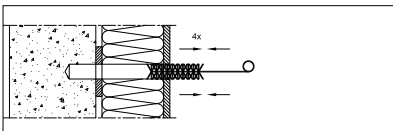
Pre-drilling (centring hole) with Ø 10 or Ø 12mm is necessary!

Concrete, KS und KSL: hammer drilling
Mz, Hlz, V, Hbl: only rotary drilling!

2. Clean drill hole



blow out 4 times



brush out 4 times

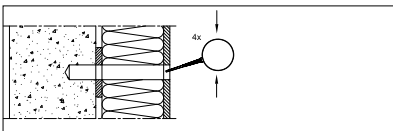
Note the brush diameter dB depends on the diameter of the drill hole d0:

Solid building materials without mesh sleeves

(d0 = 24 mm): dB = 26 mm

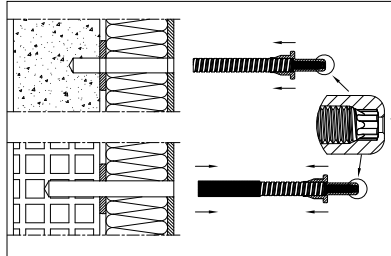
Solid and perforated building materials with mesh sleeves

(d0 = 26mm): dB = 28 mm



blow out 4 times

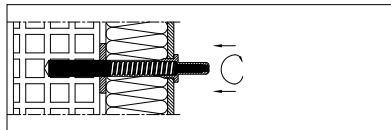
3. Expansion of the render



Push the installation tool onto the cut length of the Iso-Bar acc. to attachment 4, until it is set (also see attachment 7).

Check its position via back opening (see detailed illustration).

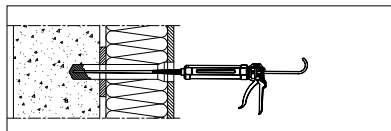
With perforated building materials and cavities in solid building materials use an additional perforated sleeve acc. to attachment 6 on the end of the bar.



Rotate the Iso-Bar into the drill hole until the stop position of the installation tool is set. With hard / thick render use an open-end wrench (A/F 19).

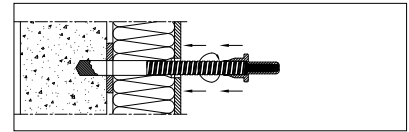
Carefully pull the Iso-Bar out of the drill hole so that the position of the mesh sleeve remains unchanged.

4. Installation of the Iso-Bar

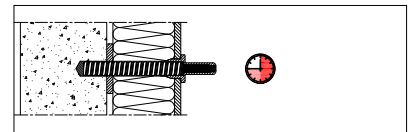


Fill the drilled hole or perforated sleeve, free of cavities, from the base of the hole. For the amount of mortar required, see attachment 7.

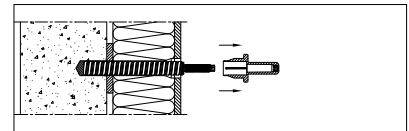
Depending on the thickness of the insulation, an extension hose may need to be used!



Insert the Iso-bar, by rotating it and using the collar on the installation tool as end stop.

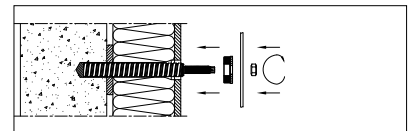


Note the curing and processing time according to ETA compound anchors.



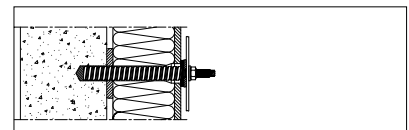
At the end of the curing time: remove the installation tool in an axial direction!

5. Fixing the attachment



Install the sealing element. Attach the add-on part and secure with washer and M12 nut!

For maximum installation torque: see attachment 5.




Installation process completed.

Delivery

To simplify the handling, the EJOT® Iso-Bar is delivered as a set.

EJOT® Iso-Bar


Order description		Article number
SET EJOT Iso-Bar 200	1	8 779 200 100
SET EJOT Iso-Bar 260	1	8 779 260 100
SET EJOT Iso-Bar 320	1	8 779 320 100
SET EJOT Iso-Bar 380	1	8 779 380 100

Included in delivery

- Bar made of glass fibre reinforced plastic with threaded M12 head (Length: 200, 260, 320 or 380 mm)
- Iso-Bar installation aid (black)
- Ø 44 mm washer with seal, A4
- Washer for M12 DIN 125, A4
- Hexagon nut M12 DIN 934, A4
- Mixing nozzle expansion 200 mm
- Iso-Bar perforated sleeve 25 x 100 steel (for use in perforated building material)



Accessories

Order description		Article number
Mortar cartridge Multifix USF 280 ml	1	9 571 000 280
Mortar cartridge USF winter 300 ml*	1	9 571 000 300

*upon request

Optional accessories

Order description		Article number
Blow-out pump	1	9 150 300 000
Applicator gun AP 300	1	9 570 010 300
Cleaning brush Ø 26 mm	1	9 150 300 026
Cleaning brush Ø 28 mm	1	9 150 300 028



Mortar cartridge Multifix USF

Field of application

- For installation in cracked concrete (option1) and non-cracked concrete (option 7) (ETA-16/0107)
- For installation in masonry (ETA-16/0089)
- For installation in natural stone (without approval)
- Approved for anchor rods M8, M10, M12, M16, M20, M24

Characteristics

- Vinyl resin, styrene-free





Benefits

- Processing with common applicator gun possible
- Can be used in wet concrete and water-filled drill holes
- Delivery including mixing nozzle

Note

Please observe the corresponding approvals during planning and processing.

The storage temperature must not permanently exceed 25 °C!

Processing time and minimum curing time			
			
-10*	1h 30'	24h	48h
≥ -5	1h 30'	14h	28h
≥ 0	45'	7h	14h
≥ +5	25'	2h	4h
≥ +10	15'	1h 20'	2h 40'
≥ +20	6'	45'	1h 30'
≥ +30	4'	25'	50'
≥ +35	2'	20'	40'
+40	1.5'	15'	30'

*Min. cartridge temperature +15 °C





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