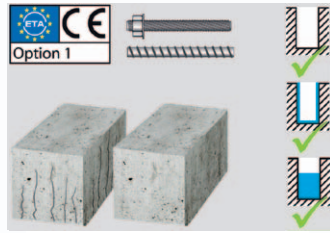


MIT-SE Plus Vinylester mortar, styrene free



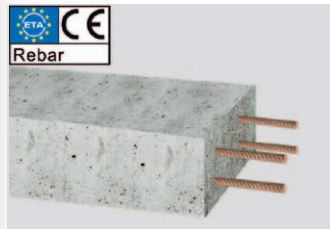
European Technical Approval

European Technical Approval Option 1 for cracked and non-cracked concrete with anchor rod and with rebar used as anchor



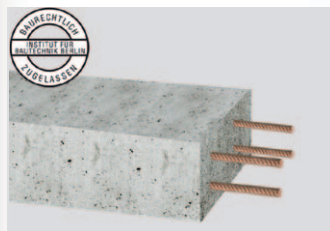
European Technical Approval

European Technical Approval according to ETAG 029 for use in masonry



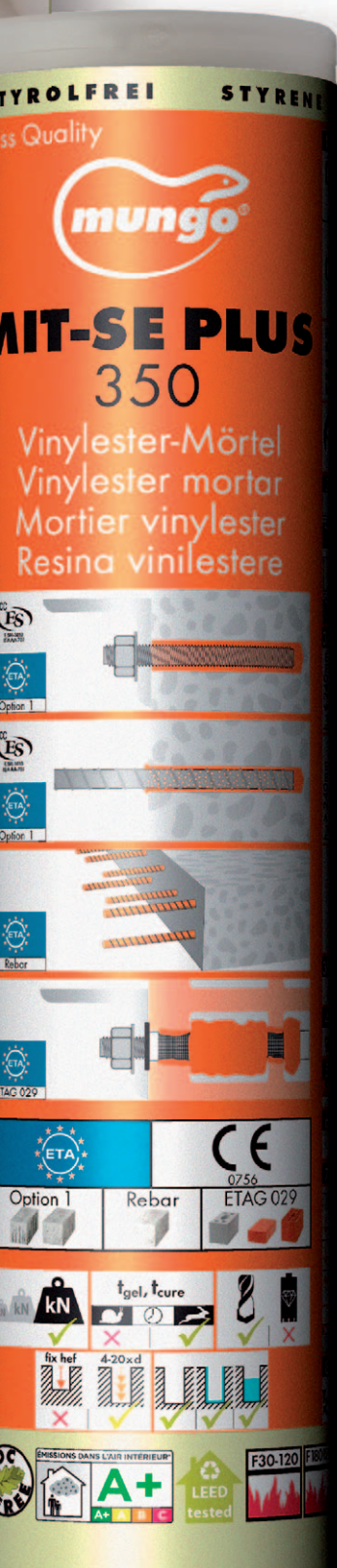
European Technical Approval

European Technical Approval for post-installed rebar connections



DIBT Approval

German National Approval for post-installed rebar connections

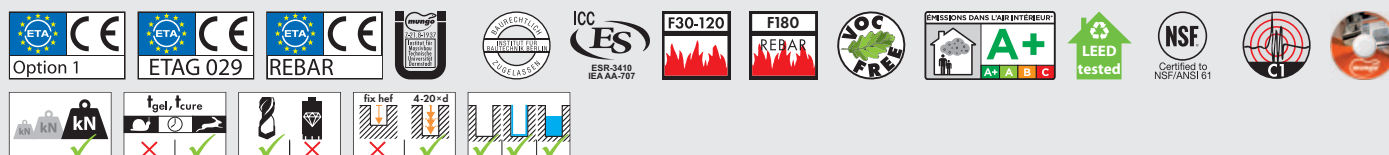


MIT-SE Plus Vinylester mortar, styrene free



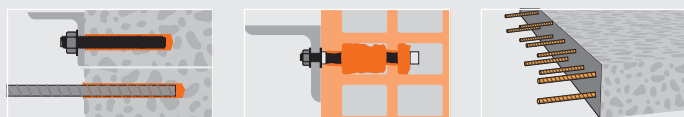
Features

- European Technical Approval Option 1 for cracked and non-cracked concrete with anchor rod and with rebar used as anchor
- European Technical Approval according to ETAG 029 for use in masonry
- European Technical Approval for post-installed rebar connections
- German National Approval for post-installed rebar connections
- ICC-ES Report ESR-3410
- Fire resistance test certification F30-F120
- Fire resistance test certification F180 (Rebar)
- VOC free according to Swiss legislation and certified A+ according to DEVL 1101903D / DEVL 1104875A
- LEED - Test Report
- Certification for drinking water systems
- The anchor may also be used under seismic influence for performance category C1
- Universal mortar for highest loads in almost all building materials
- Application also in damp and water-filled drill holes
- Variable setting depth
- Suitable for overhead fixings
- Simple and speedy working
- Styrene free and low odour
- Colour of mortar: grey
- Indoor (zinc plated) and outdoor (stainless steel) applications



Applications

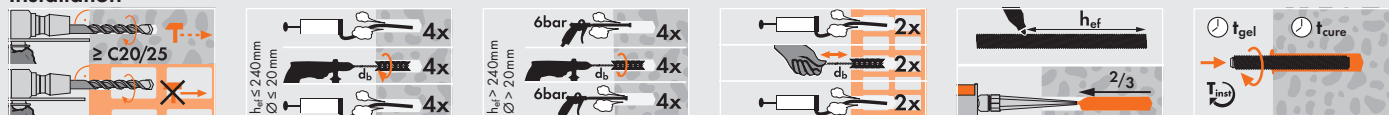
post-installed rebar connections, steel constructions, wooden constructions, façades, façade scaffolds, railings, high-racks, machines, staircases, ladders, cable trays, canopies, hand-rails, consoles



Temperatures

	≥ -10°C	≥ -5°C	≥ 0°C	≥ +5°C	≥ +10°C	≥ +20°C	≥ +30°C	≥ +35°C	≥ +40°C
Working time, in minutes (t _{gel})	90	90	45	25	15	6	4	2	1.5
Curing time, dry in minutes (t _{cure})	24 h	14 h	7 h	2 h	90	45	25	20	15
Curing time, wet in minutes (t _{cure})	48 h	28 h	14 h	4 h	3 h	90	50	40	30

Installation



Article code	Description	Languages	Content	Box content	Quantity per pallet
1710024	Cartridge incl. 2 mixers	DE/GB	165	12	1260

Not part of the rebar approval
Application with silicone gun

MIT-SE Plus Vinylester mortar, styrene free, 165 ml cartridge



Article code	Description	Languages	Content	Box content	Quantity per pallet
1710015	Cartridge incl. 2 mixers	DE/GB/FR/IT/PL	280	12	1152

Application with silicone gun

MIT-SE Plus Vinylester mortar, styrene free, 280 ml cartridge, self opening



MIT-SE Plus Vinylester mortar, styrene free, 300 ml cartridge



Article code	Description	Languages	Content	Box content	Quantity per pallet
1710017	Cartridge incl. 2 mixers	DE/GB/FR/IT/PL	300	12	1152
17100170	Cartridge incl. 2 mixers	RU/CZ/SK/GB/HR/SLO/HU/BG/RO	300	12	1152

Not part of the rebar approval
Application with silicone gun

MIT-KE System-case MIT-SE Plus 300 ml



40×30×32 cm



Article code	Content	Languages	Content	Box content	Quantity per pallet
1710102	22 x Cartridge incl. 2 mixers 1 x System-case IV with cartridge insert	DE/GB/FR/IT/PL	300	1	16



MIT-SE Plus Vinylester mortar, styrene free, 350 ml cartridge



Article code	Description	Languages	Content	Box content	Quantity per pallet
1710025	Cartridge incl. 2 mixers	DE/GB/FR/IT/PL	350	12	1152

MIT-BE Maxi-Box MIT-SE Plus 350 ml



40×30×23.5 cm



Article code	Content	Languages	Content	Box content	Quantity per pallet
1710118	20 x MIT-SE Plus 350 ml Cartridge incl. 2 mixers 1 x Maxi-Box	DE/GB/FR/IT/PL	350	1	24

MIT-SE Plus Vinylester mortar, styrene free, 400 ml cartridge



Article code	Description	Languages	Content	Box content	Quantity per pallet
1710026	Cartridge incl. 2 mixers	DE/GB/FR/IT/PL	400	12	840
17100260	Cartridge incl. 2 mixers	RU/CZ/SK/GB/HR/SLO/HU/BG/RO	400	12	840

MIT-SE Plus Vinylester mortar, styrene free, 825 ml cartridge



Article code	Description	Languages	Content	Box content	Quantity per pallet
1710022	Cartridge incl. 2 mixers	DE/GB/FR/IT/PL/RU/CZ/SK/HR/SLO/HU/BG/RO	825	6	180

Application with pneumatic injection gun only

MIT-K System-case



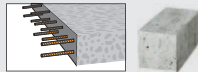
Article code	Content	For	Box content	Quantity per pallet
1710110	Drilling aid Piston plugs Infrared thermometer Brushes Brush measure Cleaning accessories	MIT-SE Plus MIT600RE (REBAR)	1	20

MIT-SE Plus with MIT-S(r) and MIT-G(r) according to European Technical Approval 10/0130

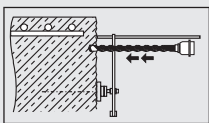

	Drilling hole \varnothing mm	Effective anchorage depth min. mm	Effective anchorage depth max. mm	Drilling depth mm	Usable length mm	Clearance hole in fixture mm	Brush \varnothing mm	Min. distance betw. anchors mm	Min. edge distance mm	Installation torque (Nm)
	d_0	h_{ef} min	h_{ef} max	h_0	f_{fix}	d_f	d_b	s_{min}	c_{min}	T_{ref} max
M8	10	60	160	= hef	0 - 1500	9	12	40	40	10
M10	12	60	200	= hef	0 - 1500	12	14	50	50	20
M12	14	70	240	= hef	0 - 1500	14	16	60	60	40
M16	18	80	320	= hef	0 - 1500	18	20	80	80	80
M20	24	90	400	= hef	0 - 1500	22	26	100	100	120
M24	28	96	480	= hef	0 - 1500	26	30	120	120	160
M27	32	108	540	= hef	0 - 1500	30	34	135	135	180
M30	35	120	600	= hef	0 - 1500	33	37	150	150	200

MIT-SE Plus with rebar used as anchor according to European Technical Approval 10/0130


	Drilling hole \varnothing mm	Effective anchorage depth min. mm	Effective anchorage depth max. mm	Drilling depth mm	Brush \varnothing mm	Min. distance betw. anchors mm	Min. edge distance mm
	d_0	h_{ef} min	h_{ef} max	h_0	d_b	s_{min}	c_{min}
\varnothing 8	12	60	160	= hef	14	40	40
\varnothing 10	14	60	200	= hef	16	50	50
\varnothing 12	16	70	240	= hef	18	60	60
\varnothing 14	18	75	280	= hef	20	70	70
\varnothing 16	20	80	320	= hef	22	80	80
\varnothing 20	24	90	400	= hef	26	100	100
\varnothing 25	32	100	480	= hef	34	125	125
\varnothing 28	35	112	540	= hef	37	140	140
\varnothing 32	40	128	640	= hef	41.5	160	160

MIT-SE Plus for post-installed rebar connections according to European Technical Approval 11/0168


	Drilling hole \varnothing mm	Brush \varnothing mm	Minimum embedment depth mm	Minimum lap splice length mm	Maximum installation length mm	Minimum distance between bonded-in rebars mm	Maximum distance between bonded-in and existing rebars mm
	d_0	d_b	$l_{b,min}$	$l_{0,min}$	l_{max}		
\varnothing 8	12	14	113	200	1000	$\geq 5 ds / \geq 50$ mm	$\leq 4 ds$
\varnothing 10	14	16	142	200	1000	$\geq 5 ds / \geq 50$ mm	$\leq 4 ds$
\varnothing 12	16	18	170	200	1200	$\geq 5 ds / \geq 50$ mm	$\leq 4 ds$
\varnothing 14	18	20	198	210	1400	$\geq 5 ds / \geq 50$ mm	$\leq 4 ds$
\varnothing 16	20	22	227	240	1600	$\geq 5 ds / \geq 50$ mm	$\leq 4 ds$
\varnothing 20	25	27	284	300	2000	$\geq 5 ds / \geq 50$ mm	$\leq 4 ds$
\varnothing 22	28	30	312	330	2000	$\geq 5 ds / \geq 50$ mm	$\leq 4 ds$
\varnothing 24	32	34	340	360	2000	$\geq 5 ds / \geq 50$ mm	$\leq 4 ds$
\varnothing 25	32	34	354	375	2000	$\geq 5 ds / \geq 50$ mm	$\leq 4 ds$

Drilling process


	Minimum concrete cover, without drilling aid	Minimum concrete cover, with drilling aid
Hammer drilling, < 25 mm	$30 \text{ mm} + 0.06 \times lv \geq 2 ds$	$30 \text{ mm} + 0.02 \times lv \geq 2 ds$
Hammer drilling, = 25 mm	$40 \text{ mm} + 0.06 \times lv \geq 2 ds$	$40 \text{ mm} + 0.02 \times lv \geq 2 ds$
Compressed air drilling, < 25 mm	$50 \text{ mm} + 0.08 \times lv$	$50 \text{ mm} + 0.02 \times lv$
Compressed air drilling, = 25 mm	$60 \text{ mm} + 0.08 \times lv$	$60 \text{ mm} + 0.02 \times lv$

MIT-SE Plus with MIT-S(r) and MIT-G(r) according to European Technical Approval 12/0544


	Sleeve for MIT-SE Plus	Drilling hole \varnothing mm	Effective anchorage depth mm	Drilling depth mm	Usable length mm	Clearance hole in fixture mm	Brush \varnothing mm	Installation torque (Nm)
	MIT-SH-K1	d_0	h_{ef}	h_0	f_{fix}	d_f	d_b	T_{ref} max
Without sleeve, M8	13 x 100	10	80	85	0 - 400	9	20	2
With sleeve, M8	13 x 100	14	80	105	0 - 400	9	20	2
Without sleeve, M10	15 x 100	12	90	95	0 - 400	12	20	2
With sleeve, M10	15 x 100	16	90	105	0 - 400	12	20	2
Without sleeve, M12	15 x 100	12	90	95	0 - 400	14	20	2
With sleeve, M12	15 x 100	16	90	105	0 - 400	14	20	2