



mungo

mungo









































Chemical anchors

Catalog

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CHEMICAL ANCHORS

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MUNGO Legend Explanation of symbols

INDUSTRIES

-  Facade / Scaffolding
-  Structural / Civil engineering
-  Infrastructure
-  Drywall / Interior fittings
-  Steel / Metal constructions
-  Wood construction
-  Electrical installations
-  Building services

BUILDING MATERIALS

-  Concrete, cracked
-  Concrete, non-cracked
-  Natural Stone, Rock
-  Brick
-  Calcium Silicate Brick
-  Perforated Brick
-  Lightweight Concrete
-  Plasterboard
-  Panels / Boards
-  Insulation Boards
-  Wood

MATERIAL

-  Zinc plated
-  Stainless steel A4


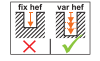
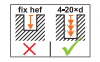









APPROVALS

-  European Organisation for Technical Assessment EOTA, Brussels
-  Fire resistance test certification
-  Certification for drinking water systems
-  Seismic action Performance category C1
-  Seismic action Performance category C2
-  Seismic action Rebar application
-  International Code Council-Evaluation Service

CERTIFICATES

-  VOC-free (CH-VOC-definition); A+ (DEVL 1101903D / 1104875A)

SYMBOLS

-  Hammer drilling
-  Hammer drilling / Diamond drilling
-  Variable setting depth
-  Variable setting depth (4-20xd)
-  Medium duty fastening
-  Heavy duty fastening
-  Slow curing
-  Fast curing
-  Dry and damp drill holes
-  Dry, damp and water-filled drill holes
-  European Technical Assessment guarantees a working life of at least 100 years
-  Automatic hole cleaning with the innovative MUNGO 2in1 Hollow Drill Bit
-  MUNGO Design Software – calculate fastenings quickly and easily.



MUNGO INJECTION MORTARS – reliable chemical compound

Injection mortars are chemical fastening systems for creating heavy-duty anchors in mineral building materials. They can be used both as anchor and for post-installed connections to existing concrete structural elements. Due to their high load-bearing capacity and flexibility, they are particularly suitable for demanding structural requirements.

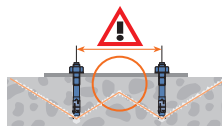
Use as anchors

When used as anchors, injection mortars serve to anchor threaded rods, anchor rods, internal threaded sleeves and reinforcement bars in concrete, masonry or natural stone. The mortar is injected into the drill hole, the fastening element is inserted, and after curing the system forms a force-fit connection to the substrate. This type of fastening is particularly suitable for high loads and small edge distance and spacing.

Use as a post-installed reinforcement Connection

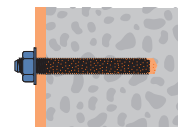
Another key area of application for injection mortars is post-installed reinforcement connections in reinforced concrete construction. This is mainly used in conversions, extensions and strengthening of structural elements and enables reliable force transmission between old and new components.

Spacing distance



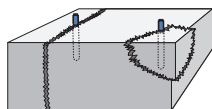
Consideration must be given to the minimum distances required when setting groups of fixings to avoid failure of the building material. A factor of 3 times the setting depth must be used to achieve maximum loads.

Anchor type



Chemical anchor (e. g. MIT, MVA). The anchor consists of a fixing element (threaded rod or internal threaded sleeve) and a synthetic-based mortar. Manufactured from 2 components, hardener and resin which when mixed together create the chemical reaction, which hardens to create the fixing by bonding to the base material. Chemical anchors do not generate stress in the building material.

Edge distance



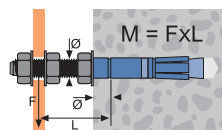
Consideration must be given to the minimum Edge distances to avoid failure of the building material.

Corrosion protection



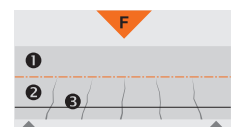
Anchors made from galvanic zinc coated steel are used for fixings of fixtures indoors, with the exception of wet rooms. The thickness of the zinc coating is 5 microns. For external applications, wet rooms, areas of high humidity found in industrial atmospheres and locations in close proximity to the sea, require fixings of stainless steel A4 (e. g. 1.4401, 1.4404).

Bending moment M



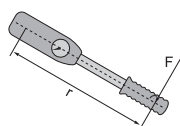
For some applications anchors are subjected to bending moments. For example, at a distance fixing.

Concrete non-cracked/cracked



① Compression Zone: concrete non-cracked, ② Tension Zone: Tensile strength: concrete cracked, ③ Reinforcing steel

Torque

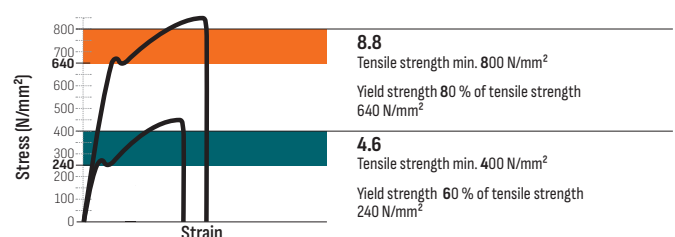


Force (F) x lever arm (r), measured at fulcrum, Nm = Newton meter. The anchor should be set using the recommended torque settings.

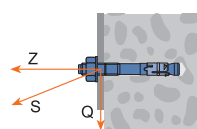
Installation torque

When the anchor is set using the correct torque a guaranteed fixing can be achieved.

Grades of steel






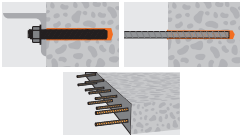
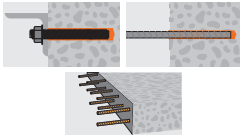
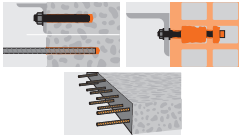
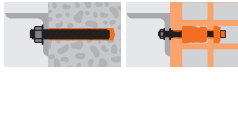
















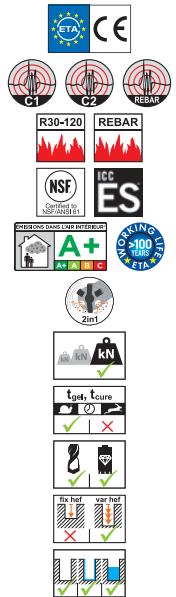
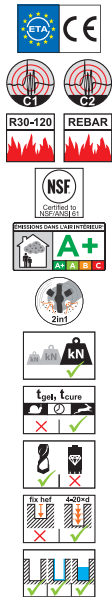
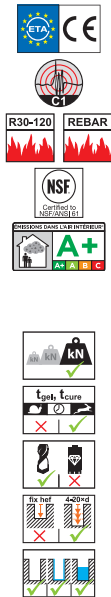

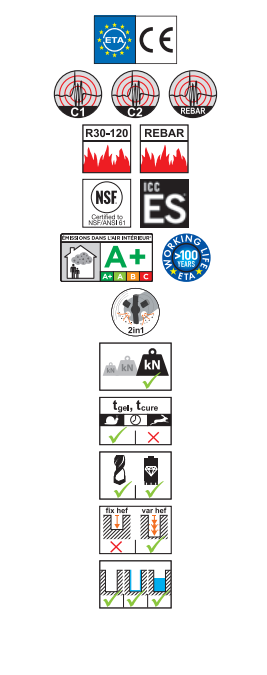
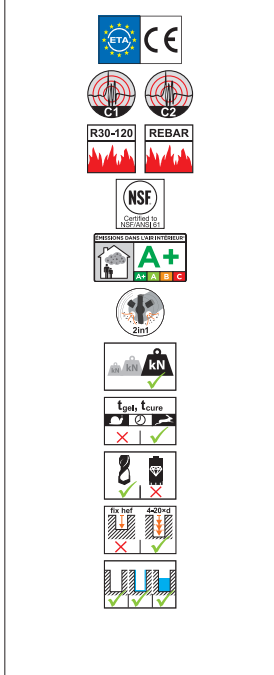
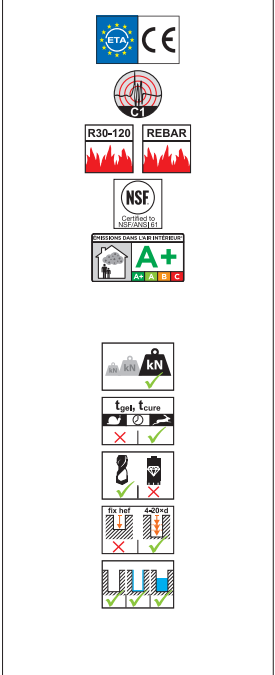
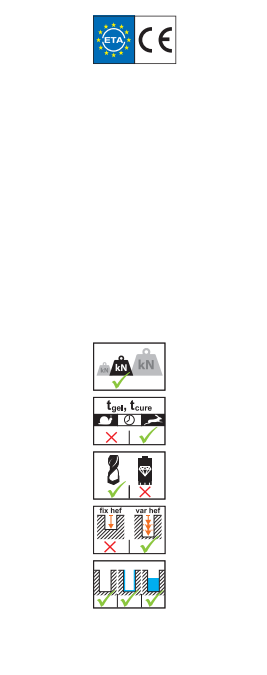
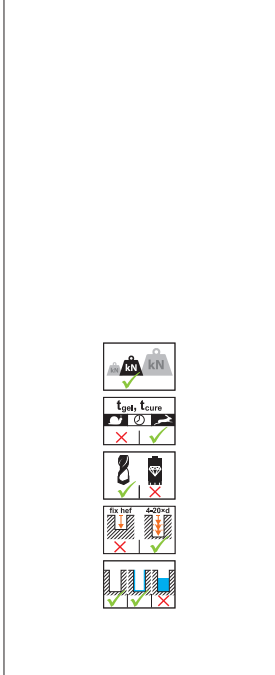


Load directions



Tension (Z), Shear (Q), Combined (S)

MIT Compatibility Injection Technology

MIT90ORE	MIT-HYBRID Plus	MIT-SE Plus	MIT-P+	MIT-ROCK
<p>Pure Epoxy</p>	<p>Vinylester urethane mortar, styrene free</p>	<p>Vinylester mortor, styrene free</p>	<p>Polyester mortor, styrene free</p>	<p>Epoxy-Acrylate mortor</p>
				
				
<p>585 ml </p>	<p>350 ml </p>	<p>300 ml </p>	<p>300 ml </p>	<p>400 ml </p>
<p>1400 ml </p>	<p>400 ml </p>	<p>350 ml </p>	<p>350 ml </p>	
<p>825 ml </p>	<p>825 ml </p>	<p>400 ml </p>	<p>420 ml </p>	
<p>825 ml </p>		<p>825 ml </p>		
				
				



recommended



suitable

FILLING VOLUME (ml) for fixings with threaded rods

	Drilling hole Ø mm	60	64	70	80	90	96	100	108	110	120	128	144	160	192	200	240	288	300	324	360	500
	d ₀	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}
M8	10	2.3	2.4	2.7	3.0	3.4	3.6	3.8	4.1	4.2	4.6	4.9	5.5	6.1	7.3	7.6	9.1	10.9	11.4	12.3	-	-
M10	12	2.9	3.1	3.4	3.9	4.4	4.7	4.9	5.3	5.4	5.9	6.3	7.1	7.9	9.4	9.8	11.8	14.1	14.7	15.9	17.7	-
M12	14	-	-	4.3	4.9	5.5	5.9	6.1	6.6	6.7	7.4	7.8	8.8	9.8	11.8	12.3	14.7	17.6	18.4	19.8	22.1	30.6
M16	18	-	-	-	6.8	7.6	8.1	8.5	9.2	9.3	10.2	10.8	12.2	13.6	16.3	16.9	20.3	24.4	25.4	27.5	30.5	42.4
M20	24	-	-	-	-	16.8	18.0	18.7	20.2	20.6	22.5	24.0	27.0	29.9	35.9	37.4	44.9	53.9	56.2	60.6	67.4	93.6
M24	28	-	-	-	-	-	22.5	23.4	25.3	25.7	28.1	29.9	33.7	37.4	44.9	46.8	56.1	67.4	70.2	75.8	84.2	116.9
M27	32	-	-	-	-	-	-	-	34.7	35.3	38.5	41.1	46.2	51.4	61.6	64.2	77.1	92.5	96.3	104.0	115.6	160.5
M30	35	-	-	-	-	-	-	-	-	-	44.4	47.3	53.3	59.2	71.0	74.0	88.8	106.5	110.9	119.8	133.1	184.9

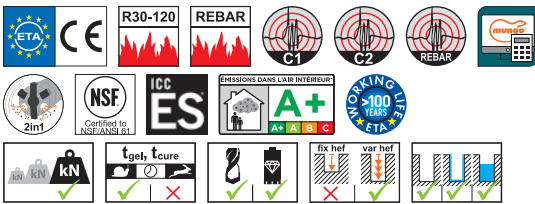
For the change of mixers and cartridges an additional quantity has to be calculated.

FILLING VOLUME (ml) for fixings with rebar

	Drilling hole Ø mm	60	70	75	80	90	96	100	112	120	128	144	150	160	168	192	240	300	336	384	500
	d ₀	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}	h _{ef}
Ø 8	12	3.8	4.4	4.7	5.0	5.7	6.0	6.3	7.0	7.5	8.0	9.0	9.4	10.1	10.6	12.1	15.1	18.8	21.1	24.1	-
Ø 10	14	4.5	5.3	5.7	6.0	6.8	7.2	7.5	8.4	9.0	9.7	10.9	11.3	12.1	12.7	14.5	18.1	22.6	25.3	29.0	37.7
Ø 12	16	-	6.2	6.6	7.0	7.9	8.4	8.8	9.9	10.6	11.3	12.7	13.2	14.1	14.8	16.9	21.1	26.4	29.6	33.8	44.0
Ø 14	18	-	-	7.5	8.0	9.0	9.7	10.1	11.3	12.1	12.9	14.5	15.1	16.1	16.9	19.3	24.1	30.2	33.8	38.6	50.3
Ø 16	20	-	-	-	9.0	10.2	10.9	11.3	12.7	13.6	14.5	16.3	17.0	18.1	19.0	21.7	27.1	33.9	38.0	43.4	56.5
Ø 20	24	-	-	-	-	12.4	13.3	13.8	15.5	16.6	17.7	19.9	20.7	22.1	23.2	26.5	33.2	41.5	46.4	53.1	69.1
Ø 25	32	-	-	-	-	-	-	31.3	35.1	37.6	40.1	45.1	47.0	50.1	52.6	60.2	75.2	94.0	105.3	120.3	156.7
Ø 28	35	-	-	-	-	-	-	-	38.8	41.6	44.3	49.9	52.0	55.4	58.2	66.5	83.1	103.9	116.4	133.0	173.2
Ø 32	40	-	-	-	-	-	-	-	-	-	57.9	65.1	67.9	72.4	76.0	86.9	108.6	135.7	152.0	173.7	226.2

For the change of mixers and cartridges an additional quantity has to be calculated.

MIT900RE Pure Epoxy



FEATURES

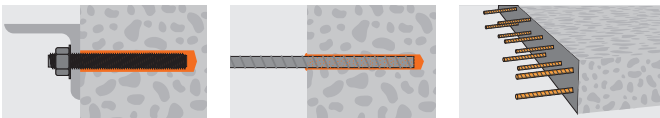
- Automatic hole cleaning with the innovative MUNGO 2in1 Hollow Drill Bit (part of the assessment)
- European Technical Assessment guarantees a working life of at least 100 years
- European Technical Assessment for cracked and noncracked concrete with anchor rod and with rebar used as anchor
- European Technical Assessment for diamond drilled holes in noncracked concrete
- European Technical Assessment for post-installed rebar connections, including under seismic loads
- European Technical Assessment according to TR 069 for post-installed rebar connections with reduced embedment depths
- Assessment of resistance under fire exposure R30-120
- Assessment of resistance under fire exposure (Rebar)
- Assessment of ICC-ES
- 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 + C2
- High Performance
- High loads
- Long working time for filling of big and deep drill holes
- Variable setting depth
- Application also in wet and water-filled drill holes
- Suitable for overhead fixings
- Colour of mortar: grey
- Indoor (zinc plated) and outdoor (stainless steel) applications

BUILDING MATERIALS



APPLICATIONS

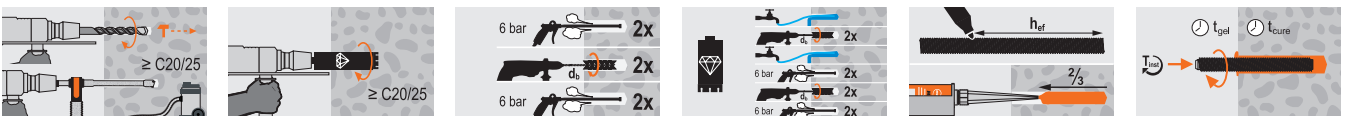
Post-installed rebar connections, Steel constructions, Profiles, Closing of ceilings, Repair works



TEMPERATURES

	0+4 °C	5+9 °C	10+14 °C	15+19 °C	20+24 °C	25+34 °C	35+39 °C	≥ 40 °C
Working time (min.) t_{gel}	80	80	60	40	30	12	8	8
Curing time, dry (h) t_{cure}	144	48	28	18	12	9	6	4
Curing time, wet (h) t_{cure}	288	96	56	36	24	18	12	8

INSTALLATION



MIT900RE Pure Epoxy, 585 ml cartridge

Article code	Description	Languages	Content	Outer carton quantity	Pallet quantity
1710161	Cartridge incl. 1 mixer	DE/GB	585 ml	12	672



01

MIT900RE Pure Epoxy, 1400 ml cartridge

Article code	Description	Languages	Content	Outer carton quantity	Pallet quantity
1710162*	Cartridge incl. 1 mixer	DE/GB	1400 ml	5	200



*Project article, available on request

02

03

Chemical anchors

04

05

06

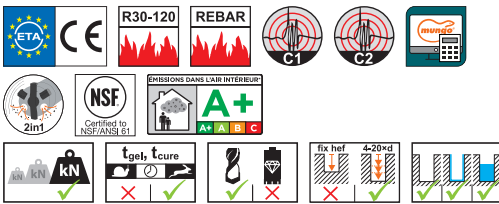
07

08



MIT-HYBRID PLUS Vinyl ester urethane mortar

styrene free



FEATURES

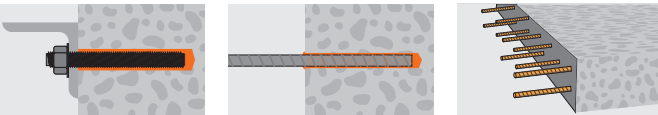
- Automatic hole cleaning with the innovative MUNGO 2in1 Hollow Drill Bit (part of the assessment)
- European Technical Assessment for cracked and noncracked concrete with anchor rod and with rebar used as anchor
- European Technical Assessment for post-installed rebar connections
- Assessment of resistance under fire exposure R30-120
- Assessment of resistance under fire exposure (Rebar)
- The anchor may also be used under seismic influence for performance category C1 + C2
- VOC free according to Swiss legislation and certified A+ according to DEVL 1101903D / DEVL 1104875A
- LEED - Test Report
- Highest productivity
- Certification for drinking water systems
- High loads
- Fast curing
- Variable setting depth
- Dry, wet and water-filled drill holes
- Suitable for overhead fixings
- Styrene free and low odour
- Colour of mortar: grey
- Indoor (zinc plated) and outdoor (stainless steel) applications

BUILDING MATERIALS



APPLICATIONS

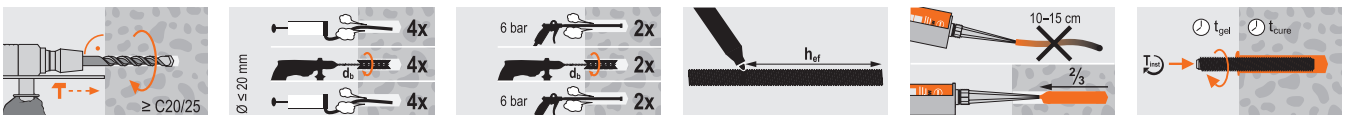
Steel constructions, Wooden constructions, Facades, Facade scaffolds, Railings, High-racks, Machines, Staircases, Ladders, Cable trays, Canopies, Hand-rails, Consoles



TEMPERATURES

	-5/+1 °C	0+4 °C	5+9 °C	10+14 °C	15+19 °C	20+29 °C	30+40 °C
Working time (min.) t_{gel}	50	25	15	10	6	3	2
Curing time, dry (min.) t_{cure}	5 h	3.5 h	2 h	60	40	30	30
Curing time, wet (min.) t_{cure}	10 h	7 h	4 h	2 h	80	60	60

INSTALLATION



MIT-Hybrid Plus Vinylester urethane mortar, styrene free, 350 ml cartridge

Article code	Description	Languges	Content	Outer carton quantity	Pallet quantity
1710096	Cartridge incl. 2 mixers	DE/GB/FR/IT/PL/NL	350 ml	12	1152



01

MIT-Hybrid Plus Vinylester urethane mortar, styrene free, 400 ml cartridge

Article code	Description	Languges	Content	Outer carton quantity	Pallet quantity
1710097	Cartridge incl. 2 mixers	DE/GB/FR/IT/PL/NL	400 ml	12	840
17100970	Cartridge incl. 2 mixers	GB/RU/SLO/HR/HU/BG/RO	400 ml	12	840



02

MIT-Hybrid Plus Vinylester urethane mortar, styrene free, 825 ml cartridge

Article code	Description	Languges	Content	Outer carton quantity	Pallet quantity
1710098*	Cartridge incl. 2 mixers	DE/GB/FR/IT/PL/NL	825 ml	6	312



*Project article, available on request

03

Chemical anchors

04

05

06

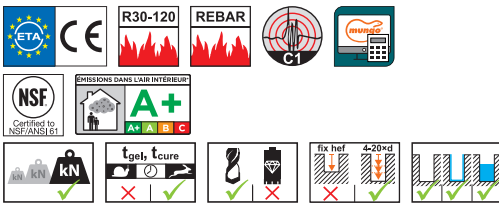
07

08



MIT-SE PLUS Vinylester mortars

styrene free



FEATURES

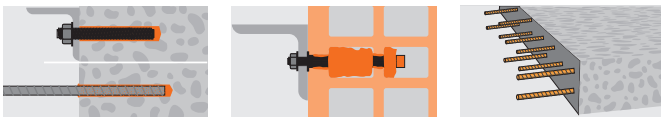
- European Technical Assessment for cracked and noncracked concrete with anchor rod and with rebar used as anchor
- European Technical Assessment for use in masonry
- European Technical Assessment for post-installed rebar connections
- Assessment of resistance under fire exposure R30-120
- Assessment of resistance under fire exposure (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 high loads in almost all building materials
- Fast curing
- Variable setting depth
- Application also in wet and water-filled drill holes
- Suitable for overhead fixings
- Styrene free and low odour
- Colour of mortar: grey
- Indoor (zinc plated) and outdoor (stainless steel) applications

BUILDING MATERIALS



APPLICATIONS

Post-installed rebar connections, Steel constructions, Wooden constructions, Facades, Facade scaffolds, Railings, High-racks, Machines, Staircases, Ladders, Cable trays, Canopies, Hand-rails, Consoles



TEMPERATURES

	-10÷-6 °C	-5÷-1 °C	0÷4 °C	5÷9 °C	10÷19 °C	20÷29 °C	30÷34 °C	35÷39 °C	>40 °C
Working time (min.) t_{gel}	90	90	45	25	15	6	4	2	1.5
Curing time, dry (min.) t_{cure}	24 h	14 h	7 h	2 h	80	45	25	20	15
Curing time, wet (min.) t_{cure}	48 h	28 h	14 h	4 h	160	90	50	40	30

INSTALLATION



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

Article code	Description	Languages	Content	Outer carton quantity	Pallet quantity
1710017 ¹⁾	Cartridge incl. 2 mixers	DE/GB/FR/IT/PL/NL	300 ml	12	1152
17100170 ¹⁾	Cartridge incl. 2 mixers	GB/RU/SLO/HR/HU/BG/RO	300 ml	12	1152



¹⁾ suitable for silicone gun

01

MIT-BE Maxi-Box MIT-SE Plus, 300 ml cartridge

Article code	Description	Languages	Content	Outer carton quantity	Pallet quantity
17101311	20 x Cartridge, 40 mixers, 1 x Maxi-Box	DE/GB/FR/IT/PL/NL	300 ml	-	24



02

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

Article code	Description	Languages	Content	Outer carton quantity	Pallet quantity
1710025	Cartridge incl. 2 mixers	DE/GB/FR/IT/PL/NL	350 ml	12	1152



03

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

Article code	Description	Languages	Content	Outer carton quantity	Pallet quantity
1710118	20 x Cartridge, 40 mixers, 1 x Maxi-Box	DE/GB/FR/IT/PL/NL	350 ml	-	24



Chemical anchors

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

Article code	Description	Languages	Content	Outer carton quantity	Pallet quantity
1710026	Cartridge incl. 2 mixers	DE/GB/FR/IT/PL/NL	400 ml	12	840
17100260	Cartridge incl. 2 mixers	GB/RU/SLO/HR/HU/BG/RO	400 ml	12	840



04

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

Article code	Description	Languages	Content	Outer carton quantity	Pallet quantity
1710022*	Cartridge incl. 2 mixers	DE/GB/FR/IT/PL/NL	825 ml	6	312



*Project article, available on request

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MIT-P+ Polyester mortar

styrene free



FEATURES

- European Technical Assessment for noncracked concrete with anchor rod
- European Technical Assessment for use in masonry
- Universal mortar for medium to heavy loads in almost all building materials
- Fast curing
- Variable setting depth
- Application also in wet and water-filled drill holes
- Suitable for overhead fixings
- Styrene free and low odour
- Colour of mortar: grey
- Suitable for assemblies in masonry
- Indoor (zinc plated) and outdoor (stainless steel) applications

BUILDING MATERIALS



APPLICATIONS

Light steel constructions, Frames, Gates, Light duty applications, Facades, Consoles



TEMPERATURES

	0+10 °C	10+20 °C	20+30 °C	30+40 °C
Working time (min.) t_{gel}	20	9	5	3
Curing time, dry (min.) t_{cure}	90	60	30	20
Curing time, wet (min.) t_{cure}	180	120	60	40

min. Cartridge temperature +20 °C

INSTALLATION



MIT-P+ Polyester mortar, styrene free, 300 ml cartridge

Article code	Description	Languages	Content	Outer carton quantity	Pallet quantity
1710070 ¹⁾	Cartridge incl. 2 mixers	DE/EN/FR/IT/SLO/CZ	300 ml	15	1260



¹⁾ suitable for silicone gun

01

MIT-P+ Polyester mortar, styrene free, 350 ml cartridge

Article code	Description	Languages	Content	Outer carton quantity	Pallet quantity
1710053	Cartridge incl. 2 mixers	DE/EN/FR/IT/SLO/CZ	350 ml	12	1008



02

MIT-P+ Polyester mortar, styrene free, 420 ml cartridge

Article code	Description	Languages	Content	Outer carton quantity	Pallet quantity
1710071	Cartridge incl. 2 mixers	DE/EN/FR/IT/SLO/CZ	420 ml	12	1008



03

Chemical anchors

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MIT-ROCK Epoxy-Acrylate mortar



FEATURES

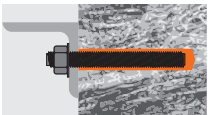
- Suitable for use with natural stone – does not leave any stains
- Ideal for grouting and fixing natural stone
- Optimum long term behaviour
- Resistant against acid and solvents
- Stress-free fastening
- Low edge distance and spacing
- Medium duty fastening
- Fast curing
- Variable setting depth
- Application also in wet drill holes
- Colour of mortar: dark grey
- Indoor (zinc plated) and outdoor (stainless steel) applications

BUILDING MATERIALS



APPLICATIONS

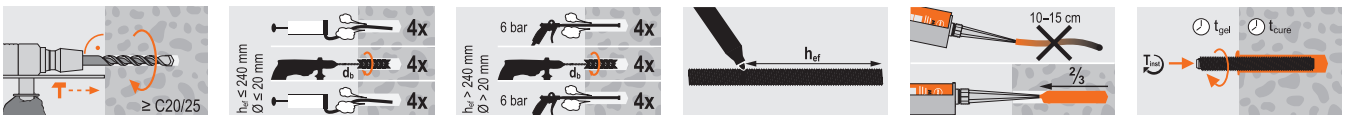
Steel constructions, Wooden constructions, Facades, Facade scaffolds



TEMPERATURES

	≥ +5 °C	≥ +10 °C	≥ +20 °C	≥ +30 °C	≥ +35 °C
Working time (min.) t_{gel}	25	15	6	4	2
Curing time, dry (min.) t_{cure}	120	80	45	25	20
Curing time, wet (min.) t_{cure}	240	160	90	50	40

INSTALLATION



MIT-ROCK Epoxy-Acrylate mortar, 400 ml cartridge



Article code	Description	Langauges	Content	Outer carton quantity	Pallet quantity
1710005	Cartridge incl. 2 mixers	DE/GB/FR/IT/PL/NL	400 ml	12	840
17100050	Cartridge incl. 2 mixers	GB/RU/SLO/HR/HU/BG/RO	400 ml	12	840

01

02

03

Chemical anchors

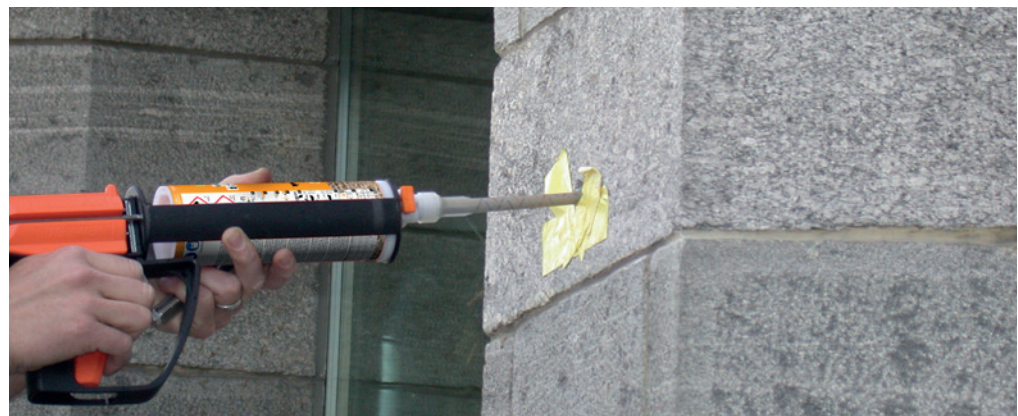
04

05

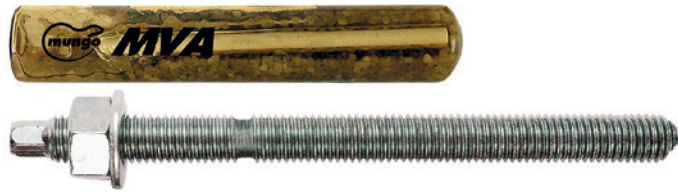
06

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08



MVA Resin Capsule



BUILDING MATERIALS



APPLICATIONS

Steel constructions, Cable trays, Guard rails, Substructures, Machines



FEATURES

- European Technical Assessment for non-cracked concrete
- The European Technical Assessment is only applies in combination with MVA-S/MVA-Sr anchor rods
- Quick and simple installation
- Small edge distance and spacing
- Temperature range short term: -40°C - +80°C
- Temperature range long term: -40°C - +50°C
- Anchor rod with 45° end
- Setting depth mark for correct installation
- No waste from empty cartridges, packaging is fully recyclable
- Indoor (zinc plated) and outdoor (stainless steel) applications

TEMPERATURES

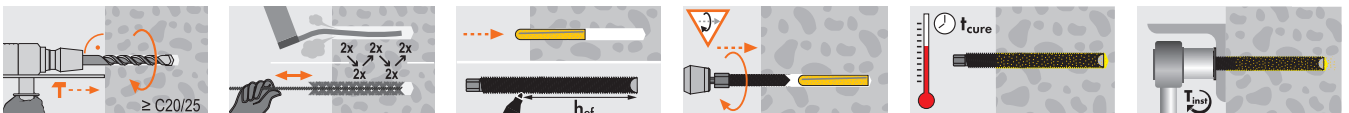
	≥ +0°C	≥ +5°C	≥ +10°C	≥ +20°C	≥ +30°C	≥ +35°C
Curing time, dry (min.) t_{cure}	5 h	1 h	1 h	20	10	10
Curing time, wet (min.) t_{cure}	10 h	2 h	2 h	40	20	20

TECHNICAL DATA

	Concrete, non-cracked C20/25 tension load (kN) Stvz. 5.8 / A4-70	Concrete, non-cracked C20/25 tension load (kN) MVA-I(r)	Concrete, non-cracked C20/25 shear load (kN) galv. 5.8	Concrete, non-cracked C20/25 shear load (kN) A4-70	Bending moment (Nm) galv. 5.8	Bending moment (Nm) A4-70	min. distance betw. anchors mm	min. edge distance mm	min. component thickness mm	Installation torque (Nm)	Wrench size
							s _{min}	c _{min}	h _{min}	T _{inst}	SW
M8	8	6.2	5	6	10.8	11.9	40	40	110	10	13
M10	12	8.2	8	9	21.1	23.8	45	45	120	20	17
M12	16	10.3	12	13	37.1	42.1	55	55	140	40	19
M14	18	-	16	18	51.8	58.1	60	60	150	60	22
M16	24	17.9	22	25	94.9	106.7	65	65	160	80	24
M20/135	24	-	35	39	185.7	207.9	85	85	220	120	30
M20/175	36	30	35	39	185.7	207.9	85	85	220	120	30
M24	48	-	50	57	320.6	359.4	105	105	260	180	36
M30	60	-	80	90	642	720	140	140	340	300	46

The partial safety factors of the resistances as well as a partial safety factor of the load of $\gamma_F = 1.4$ are considered / M14 + M20/135 + M30 + MVA-I/MVA-Ir; Not part of the assessment / The technical data is only valid for single fixings without consideration of edge and anchor distances / 1 kN = 100 kg

INSTALLATION



MVA Resin Capsule, Epoxy-Acrylate

Article code	For	Capsule length mm	Drilling hole Ø mm	Drilling depth mm	Unit content	Outer carton quantity
	MVA-S(r)	L	d ₀	h ₀		
1610008	M8	80	10	80	10	500
1610010	M10	80	12	90	10	500
1610012	M12	95	14	110	10	500
1610014	M14	95	16	120	10	200
1610016	M16	95	18	125	10	200
1602211	M20	135	24	140	10	100
1610020	M20	175	25	170	10	100
1610024	M24	210	28	210	5	50



01

MVA-S Anchor Rod, zinc plated, steel Quality 5.8 with hex-nut and washer DIN 125A

Article code	Thread	Thread length mm	Usable length mm	Hex-nut	Drive	Unit content
	d	L	t _{us}	SW	SW	
1650008	M8	110	15	13	5	10
1651508	M8	150	55	13	5	10
1650010	M10	130	20	17	6	10
1651710	M10	170	65	17	6	10
1650012	M12	160	30	19	8	10
1652212	M12	220	90	19	8	10
1652612	M12	260	130	19	8	10
1653012	M12	300	170	19	8	10
1650014	M14	170	40	22	10	10
1650016	M16	190	40	24	10/12	10
1652316	M16	230	80	24	10/12	10
1652616	M16	260	110	24	10/12	10
1653016	M16	300	150	24	10/12	10
1652020	M20	230	40	30		6
1652026	M20	260	70	30		6
1652430	M24	300	65	36		6
1653038	M30	380	70	46		1



Each box of Anchor Rods incl. a setting tool (M8-M16). M8 to M16 with external hexagon socket. Other dimensions and materials on request.

02

03

Chemical anchors

04

MVA-Sr Anchor Rod, stainless steel A4-70 with hex-nut and washer DIN 125A

Article code	Thread	Thread length mm	Usable length mm	Hex-nut	Drive	Unit content
	d	L	t _{us}	SW	SW	
1660008	M8	110	15	13	5	10
1661508	M8	150	55	13	5	10
1660010	M10	130	20	17	6	10
1661710	M10	170	65	17	6	10
1660012	M12	160	30	19	8	10
1662212	M12	220	90	19	8	10
1662612	M12	260	130	19	8	10
1663012	M12	300	170	19	8	10
1660016	M16	190	40	24	10/12	10
1662316	M16	230	80	24	10/12	10
1662616	M16	260	110	24	10/12	10
1663016	M16	300	150	24	10/12	10
1662020	M20	230	40	30		6
1662026	M20	260	70	30		6
1662430	M24	300	65	36		6
1663038	M30	380	70	46		1



Each box of Anchor Rods incl. a setting tool (M8-M16). M8 to M16 with external hexagon socket. Other dimensions and materials on request.

05

06

MVA-I Anchor Sleeve with internal thread, steel quality 5.8

Article code	Internal thread	Capsule	Drilling hole Ø mm	Drilling depth mm	min. screw in mm	max. screw in mm	Installation torque (Nm)	Unit content
	d	d _{com}	d ₀	h ₀	h _{Smin}	h _{Smax}	T _{int, max}	[FS]
1670008	M8	M12	15	90	12	30	6	10 [01]
1670010	M10	M16	18	90	15	35	12	10 [01]
1670012	M12	M16	22	90	18	40	20	10 [21]
1670016	M16	M20/135	28	125	24	40	45	10 [21]
1670020	M20	M24	35	180	40	60	100	10 [51]



07

MVA-Ir Anchor Sleeve with internal thread, stainless steel A4

Article code	Internal thread	Capsule	Drilling hole Ø mm	Drilling depth mm	min. screw in mm	max. screw in mm	Installation torque (Nm)	Unit content
	d	d _{com}	d ₀	h ₀	h _{Smin}	h _{Smax}	T _{int, max}	[FS]
1670108	M8	M12	15	90	12	30	6	10 [01]
1670110	M10	M16	18	90	15	35	12	10 [01]
1670112	M12	M16	22	90	18	40	20	10 [21]
1670116	M16	M20/135	28	125	24	40	45	10 [21]
1670120	M20	M24	35	180	40	60	100	10 [51]



08

MIT-PP-H Manual Injection Gun

FEATURES

- Sporadic and frequent applications
- Easy and smooth mortar injection
- Effortless application
- Automatic release (MIT-PP-H1)
- Ergonomic, lightweight and robust
- Comfortable grip even when wearing gloves

MIT-PP-H0 Injection Gun 12 in 1

Article code	For	Unit content
1710047	MIT 150 / 165 / 280 / 300 / 330 / 380 / 385 / 400 / 410 / 420 / 440 / 585	1



Suitable for silicone gun

MIT-PP-H1 Easy-Press

Article code	For	Unit content
1710034	MIT 165 / 280 / 300	1



Suitable for silicone gun

MIT-PP-H1 Easy-Press

Article code	For	Unit content
1710035	MIT 300 / 350	1



Suitable for silicone gun

MIT-PP-H1 Easy-Press

Article code	For	Unit content
1710036	MIT 400	1



Suitable for silicone gun

MIT-PP-H2 Injection Gun

Article code	For	Unit content
1710029	MIT 165 / 280 / 300	1



Suitable for silicone gun

MIT-PP-H2 Injection Gun

Article code	For	Unit content
1710033	MIT 300 / 350	1



Suitable for silicone gun

MIT-PP-H2 Injection Gun

Article code	For	Unit content
1710019	MIT 385 / 440 / 585	1



Suitable for silicone gun

MIT-PP-H2 Injection Gun

Article code	For	Unit content
1710009	MIT 400	1



Suitable for silicone gun

MIT-PP-A Cordless Injection Gun

01

FEATURES

- Frequent and repetitive applications
- Effortless injecting even at low temperatures or deep anchor holes
- Ergonomic, lightweight and robust
- Lithium ion battery 14.4 V / 2.0 Ah
- Recharges in 65 minutes

02

MIT-PP-A Cordless Injection Gun

Article code	For	Content	Unit content
1710046	MIT 165 / 280 / 300	2x Batteries 1x Charger 1x Case	1



Suitable for silicone gun
Lithium ion battery 14.4 V / 3.0 Ah
Recharges in 40 minutes

03

Chemical anchors

MIT-PP-A Cordless Injection Gun

Article code	For	Content	Unit content
1710221	MIT 300 / 350	2x Batteries 1x Charger 1x Case	1



04

MIT-PP-A Cordless Injection Gun

Article code	For	Content	Unit content
1710021	MIT 400	2x Batteries 1x Charger 1x Case	1



05

MIT-PP-A Cordless Injection Gun

Article code	For	Content	Unit content
1710032	MIT 585	2x Batteries 1x Charger 1x Case	1



06

MIT-PP-A Cordless Injection Gun

Article code	For	Content	Unit content
1710038	MIT 825	2x Batteries 1x Charger 1x Case	1



07

08

MIT-PP-P Pneumatic Injection Gun

FEATURES

- Repetitive applications
- For increased productivity on large sites
- Effortless application
- Lightweight and easy to use
- Automatic release
- Low air consumption

MIT-PP-P Pneumatic Injection Gun

Article code	For	Unit content
1710040	MIT 165 / 280 / 300 / 350	1



Suitable for silicone gun

MIT-PP-P Pneumatic Injection Gun

Article code	For	Unit content
1710048	MIT 385 / 440 / 585	1



MIT-PP-P Pneumatic Injection Gun

Article code	For	Unit content
1710020	MIT 400	1



MIT-PP-P Pneumatic Injection Gun

Article code	For	Unit content
1710037	MIT 825	1



MIT-PP-P Pneumatic Injection Gun

Article code	For	Unit content
1710049	MIT 1400	1



MIT-K System-case

FEATURES

- Accessories for post-installed reinforcement connections
- Meets MVV-TB (DE) requirements

MIT-K System-case

Article code	Content	For	Unit content	Pallet quantity
1710110	Drilling aid Piston plugs Infrared thermometer Brushes Brush measure Cleaning accessories	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus (REBAR)	1	20



MIT-R Accessories for cleaning drill holes

01

MIT-BS-H0 Universal Steel Brush

Article code	Anchor rod mm	Rebar \varnothing mm	Drilling hole \varnothing mm	Brush \varnothing mm	Length mm	Unit content
			d_s	d_b	L	
1690018	M6		8	10	300	1
1690014	M8		10	12	300	1
1690023	M10	8	12	14	300	1
1690015	M12	10	14	16	300	1
1690016	M16	14	18	20	300	1
1690017	M20		24	26	300	1
1690019	M24		28	30	300	1



Brush extension on request

02

MIT-BS-M1 Steel Brush

Article code	Anchor rod mm	Rebar \varnothing mm	Drilling hole \varnothing mm	Brush \varnothing mm	Unit content
			d_s	d_b	
1690040	M8	8*	10	11.5	1
1690041	M10	8;10*	12	13.5	1
1690042	M12	10;12*	14	15.5	1
1690043		12	16	17.5	1
1690044	M16	14	18	20	1
1690045		16	20	22	1
1690064	M20		22	24	1
1690046	M20	20	24	26	1
1690065		20	25	27	1
1690047	M24	22	28	30	1
1690066	M27	24/25	30	31.8	1
1690048		24/25	32	34	1
1690049	M30	28	35	37	1
1690050		32/34	40	43.5	1
1690053		36	45	47	1
1690054		40	52	54	1
1690055		40	55	58.5	1



*only MIT900RE

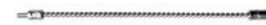
03

Chemical anchors

04

MIT-BS-MV Brush Extension

Article code	For	Length mm	\varnothing mm	Unit content
		L		
1690051	MIT-BS-M1	300	12	1



05

MIT-BS-MA SDS-Plus Adapter M6

Article code	For	Content	Unit content
1690052	MIT-BS-M1	M6	1



06

MIT-AP-HG1 Purging Pump

Article code	Part of the assessment for	Volume ml	Unit content
1690011	MIT-Hybrid Plus / MIT-SE Plus / MIT-P+ / MIT-Rock / MVA	840	1



07

MIT-AP-HKO Purging Pump

Article code	For	Volume ml	Unit content
1690002	MIT-P+ / MIT-Rock / MVA	320	1



MIT-AP-D1 Compressed air tool (metal)

Article code	Part of the assessment for	Content	Unit content
1690008	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus / MIT-P+ / MIT-Rock / MVA	1/4" internal thread, til 16 bar	1



08

MIT-V Accessories for filling drill holes

MIT-VS Piston plugs

Article code	Thread	Rebar Ø mm	Drilling hole Ø mm	Unit content
	d		d ₀	
1710075	M12	10	14	1
1710076		12	16	1
1710077	M16	14	18	1
1710078		16	20	1
1710082	M20		22	1
1710084	M20		24	1
1710079		20	25	1
1710080	M24	22	28	1
1710081	M27	24/25	32	1
1710085	M30	28	35	1
1710086		32/34	40	1
1710087		36	45	1
1710088		40	52	1
1710089		40	55	1



*only MIT900RE

MIT-MI-2 Mixer

Article code	Part of the assessment for	Unit content
1710014	MIT-SE Plus / MIT-P+ / MIT-Rock	1



MIT-MI-4 Mixer

Article code	Part of the assessment for	Unit content
1710018	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	1



MIT-MI-V1 Mixer Extension

Article code	Part of the assessment for	Anchor rod mm	Rebar Ø mm	Length mm L	Unit content
1690051	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M8-M24	8-25	500	1



MIT-MI-V2 Extension (PVC), 1 m

Article code	Part of the assessment for	Anchor rod mm	Rebar Ø mm	Length mm L	Unit content
1690037	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M8-M24	8-25	1000	1



MIT-SH-K2 Sleeve

Article code	Part of the assessment for	Für	Aussen-Ø mm	Drilling hole Ø mm	Length mm	Unit content
			d _{nom}	d ₀	L	
1710141	-	M8	12	12	50	1
1710145	MIT-SE Plus / MIT-P+	M8	12	12	80	1
1710146	MIT-SE Plus / MIT-P+	M8/M10	16	16	85	1
1710150	MIT-SE Plus	M8/M10	16	16	130	1
1710154	MIT-SE Plus	M8/M10	16	16	130/330	1
1710147	MIT-SE Plus	M12/M16	20	20	85	1
1710148	MIT-SE Plus	M12/M16	20	20	130	1
1710149	MIT-SE Plus	M12/M16	20	20	200	1



MIT-SH-SO Sleeve (metal), 1 m

Article code	For	Ø mm	Drilling hole Ø mm	Length mm	Unit content
		d	d ₀	L	
1710151	M8	11	12	1000	1
1710152	M10-M12	15	16	1000	1
1710153	M16	20	22	1000	1



MIT-GS Threaded rod, Anchor rod, Anchor Sleeve with internal thread

01

MGS 4.6 Threaded Rod, zinc plated, steel quality 4.6, 1 m

Article code	Thread	Length mm	Unit content
	d	L	
7460510	M5	1000	1
7460610	M6	1000	1
7460810	M8	1000	1
7461010	M10	1000	1
7461210	M12	1000	1
7461610	M16	1000	1



02

MGS 8.8 Threaded Rod, zinc plated, steel quality 8.8, 1 m

Article code	Thread	Length mm	Unit content
	d	L	
7880510	M5	1000	1
7880610	M6	1000	1
7880810	M8	1000	1
7881010	M10	1000	1
7881210	M12	1000	1
7881610	M16	1000	1
7882010	M20	1000	1
7882410	M24	1000	1
7883010	M30	1000	1



03

Chemical anchors

MGSr A4 Threaded Rod, stainless steel A4-70, 1 m

Article code	Thread	Length mm	Unit content
	d	L	
7040510	M5	1000	1
7040610	M6	1000	1
7040810	M8	1000	1
7041010	M10	1000	1
7041210	M12	1000	1
7041610	M16	1000	1
7042010	M20	1000	1
7042410	M24	1000	1
7043010	M30	1000	1



04

05

MIT-S Anchor Rod, zinc plated, steel Quality 5.8 with hex-nut and washer DIN 125A

Article code	Rod Ø mm	Length mm	Drill Ø concrete mm	Unit content
	d _{nom}	L	d ₀	
1720607 ¹⁾	M6	70	8	10
1720811	M8	110	10	10
1720813	M8	130	10	10
1720815	M8	150	10	10
1720817	M8	170	10	10
1721011	M10	110	12	10
1721013	M10	130	12	10
1721015	M10	150	12	10
1721017	M10	170	12	10
1721213	M12	130	14	10
1721217	M12	170	14	10
1721221	M12	210	14	10
1721226	M12	260	14	10
1721618	M16	180	18	10
1721622	M16	220	18	10
1721626	M16	260	18	10
1721633	M16	330	18	10
1722027	M20	270	22/24	5
1722030	M20	300	22/24	5
1722432	M24	320	28	5
1722436	M24	360	28	5



¹⁾ not part of the assessment
Other dimensions and materials on request

06

07

08

MIT-S Anchor Rod, zinc plated, steel Quality 8.8 with hex-nut and washer DIN 125A

Article code	Rod Ø mm	Length mm	Drill Ø concrete mm	Unit content
	d_{nom}	L	d_b	
1790607 ¹⁾	M6	70	8	10
1790811	M8	110	10	10
1790813	M8	130	10	10
1790815	M8	150	10	10
1790817	M8	170	10	10
1791011	M10	110	12	10
1791013	M10	130	12	10
1791015	M10	150	12	10
1791017	M10	170	12	10
1791213	M12	130	14	10
1791217	M12	170	14	10
1791221	M12	210	14	10
1791226	M12	260	14	10
1791618	M16	180	18	10
1791622	M16	220	18	10
1791626	M16	260	18	10
1791633	M16	330	18	10
1792027	M20	270	22/24	5
1792030	M20	300	22/24	5
1792432	M24	320	28	5
1792436	M24	360	28	5



¹⁾ not part of the assessment
Other dimensions and materials on request

MIT-Sr Anchor Rod, stainless steel A4-70 with hex-nut and washer DIN 125A

Article code	Rod Ø mm	Length mm	Drill Ø concrete mm	Unit content
	d_{nom}	L	d_b	
1730811	M8	110	10	10
1730813	M8	130	10	10
1730815	M8	150	10	10
1730817	M8	170	10	10
1731011	M10	110	12	10
1731013	M10	130	12	10
1731015	M10	150	12	10
1731017	M10	170	12	10
1731213	M12	130	14	10
1731217	M12	170	14	10
1731221	M12	210	14	10
1731226	M12	260	14	10
1731618	M16	180	18	10
1731622	M16	220	18	10
1731626	M16	260	18	10
1731633	M16	330	18	10
1732027	M20	270	22/24	5
1732030	M20	300	22/24	5
1732432	M24	320	28	5
1732436	M24	360	28	5



Other dimensions and materials on request

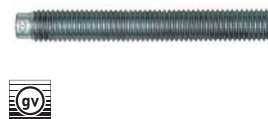
MIT-IGH Anchor Sleeve with internal thread

Article code	Internal thread	Outside Ø mm	Length mm	Drill Ø concrete mm	Unit content
	d	d_{nom}	L	d_b	
1710060	M6	8	48	10	10
1710061	M8	12	80	14	10
1710062	M10	14	80	16	10
1710063	M12	16	80	18	10



MIG-M Anchor Sleeve with internal thread, steel quality 5.8

Article code	Part of the assessment for	Internal thread	Outside Ø mm	Drill Ø (without sleeve) mm	Drill Ø (with sleeve) mm	Drilling depth mm	Sleeve Ø mm	Length mm	Unit content
		d	d _{nom}	d ₀	d ₀	h ₀	S _d	L	[FS]
1711101	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M6	10	12	16	85	16	80	10 [01]
1711102	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M6	10	12	16	98	16	90	10 [01]
1711103	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M8	12	14	20	85	20	80	10 [01]
1711104	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M8	12	14	20	110	20	100	10 [11]
1711105	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M10	16	18	20	85	20	80	10 [01]
1711106	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M10	16	18	20	110	20	100	10 [11]



01

02

MIGr-M Anchor Sleeve with internal thread, stainless steel A4-70

Article code	Part of the assessment for	Internal thread	Outside Ø mm	Drill Ø (without sleeve) mm	Drill Ø (with sleeve) mm	Drilling depth mm	Sleeve Ø mm	Length mm	Unit content
		d	d _{nom}	d ₀	d ₀	h ₀	S _d	L	[FS]
1711201	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M6	10	12	16	85	16	80	10 [01]
1711202	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M6	10	12	16	98	16	90	10 [01]
1711203	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M8	12	14	20	85	20	80	10 [01]
1711204	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M8	12	14	20	110	20	100	10 [11]
1711205	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M10	16	18	20	85	20	80	10 [01]
1711206	MIT900RE / MIT-Hybrid Plus / MIT-SE Plus	M10	16	18	20	110	20	100	10 [11]



03

04

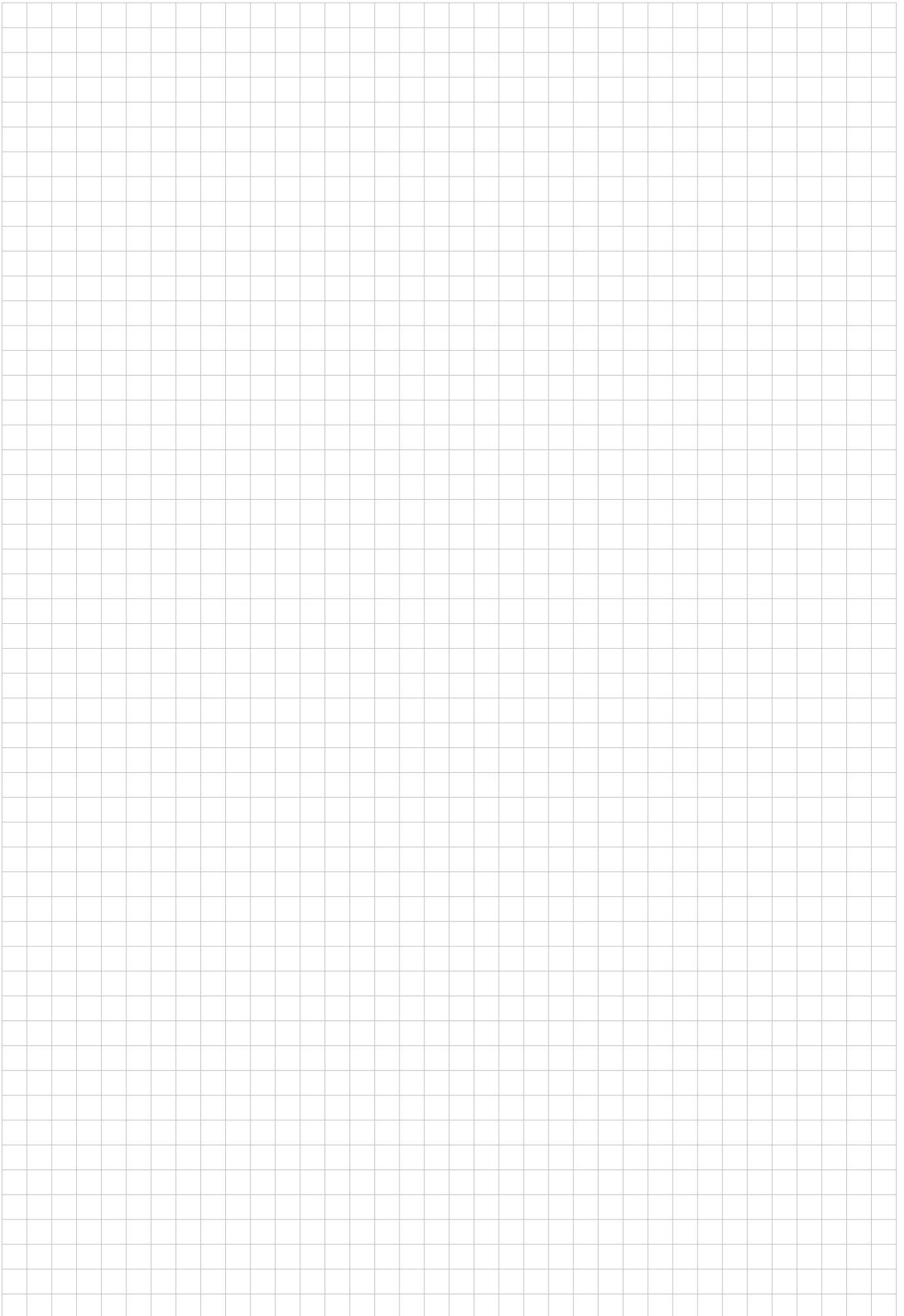
05

06

07

08

Chemical anchors





mungo
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The Swiss way of fixing.

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Modular PACKING SYSTEM

We pack the majority of our products in just 9 different folding boxes and 3 collective cartons. This enables an optimal combination of products for shipping.

There are various combinations, which can easily be taken from the table.

All packaging quantities are coded accordingly in the product tables so that the dimensions and quantities can be easily determined.

THE ADVANTAGES AT A GLANCE

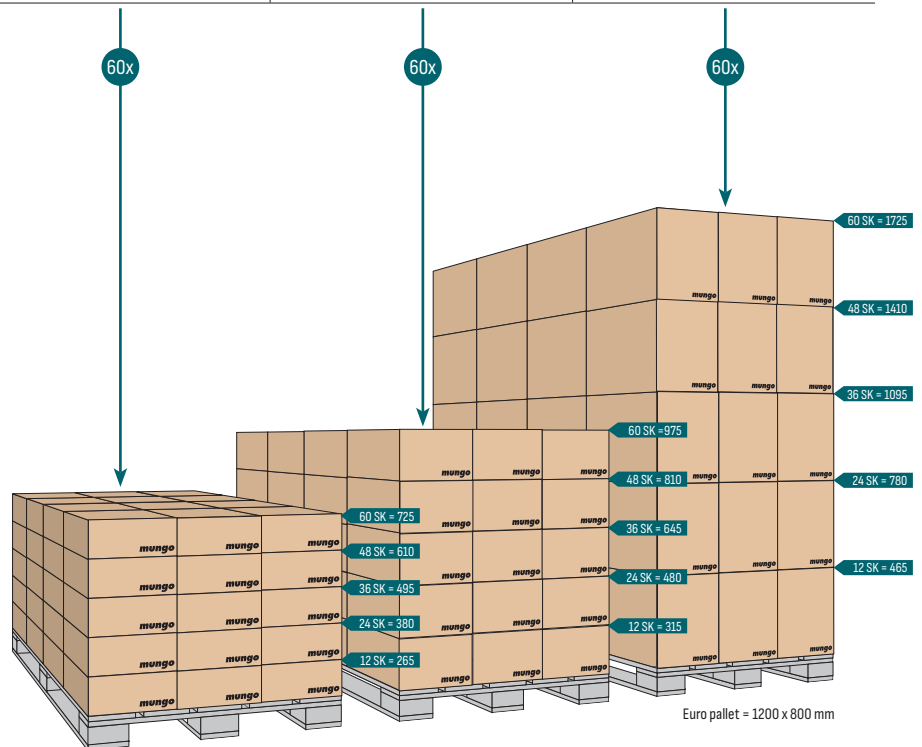
- ⦿ Optimized appearance thanks to the uniform width of the boxes
- ⦿ Greater stability thanks to new design
- ⦿ Packaging tailored to MUNGO products
- ⦿ Folding boxes are always compatible with at least two larger packaging units



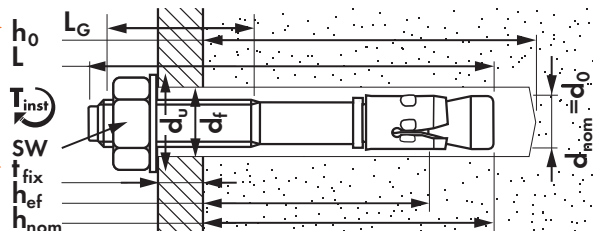
	FS 1/4	97 x 128 x 49 mm	-	18x	36x
	FS 01	97 x 64 x 75 mm	-	24x	48x
	FS 11	97 x 64 x 150 mm	-	12x	24x
	FS 21	97 x 85 x 150 mm	-	9x	18x
	FS 31	97 x 128 x 150 mm	-	6x	12x
	FS 41	97 x 100 x 256 mm	3x	-	9x
	FS 51	97 x 150 x 256 mm	-	3x	6x
	FS 61	97 x 128 x 292 mm	2x	-	6x

		
SK 12	SK 21	SK 32
265 x 115 x 300 mm	265 x 165 x 300 mm	265 x 315 x 300 mm

50	61	300	32	1440
25	61	50	12	720
50	61	300	32	3000
25	61	50	12	7200
50	61	300	32	3000
25	61	50	12	7200



80	80	30
100	100	50
120	120	70
140	140	90





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