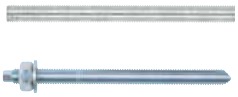
WIT-PM 200

Masonry

Uncracked concrete



25.2 **2-component reaction resin mortar, polyester styrene-free**

Individual fastening:
Uncracked concrete, masonry of solid and perforated bricks

WIT-PM 200, coaxial cartridge of 420 ml incl. 1 static mixer

WIT-PM 200, coaxial cartridge of 150 ml incl. 1 static mixer &
1 application gun
for use with normal silicone application gun

WIT-PM 200, tubular-film cartridge of 300 ml
incl. 1 static mixer
for use with normal silicone application gun

Proof of Performance

Approvals	
European Technical Approval Option 7 for uncracked concrete	**European Technical Approval** Solid and perforated stone masonry and aerated concrete (b, c)
ETA	ETA

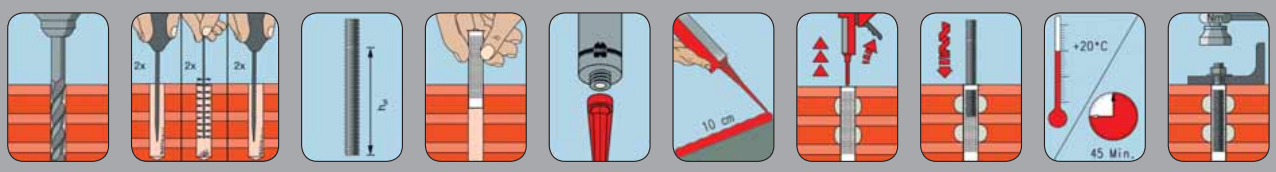
1. Applications
- Approved for masonry of:
  solid brick (CB), solid sand-lime brick (SSLB), vertically perforated brick (VPB) and perforated sand-lime brick (PSLB)
- Approved for uncracked concrete, concrete compression zone (C20/25 to C50/60)
- Also suitable for: hollow blocks made of concrete and lightweight concrete
- Suitable for securing wooden structures, metal structures, metal profiles, brackets, screens, plumbing objects, pipes, cable conduits etc.

2. Advantages
- Styrene-free and thus especially suitable for anchoring in perforated brick masonry
- Cartridges can be used up to expiration of the best before date by replacing the static mixer or by being closed again with sealing cap

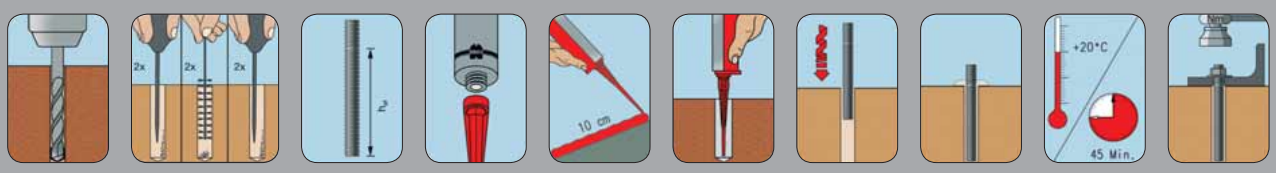
3. Features
- Uncracked concrete:
  European Technical Approval ETA-12/0569
- Masonry (solid and perforated brick):
  European Technical Approval ETA-13/0037
- 2-component reaction resin mortar, polyester styrene-free
- Temperature of anchoring base during processing and hardening: –5 °C to +35 °C
- Ambient temperature after full hardening
  –40 °C to +40 °C
- Transport and storage temperature (cartridge): +5 °C to +25 °C
- Shelf life (store in a cool, dry and dark place):
  Coaxial cartridge (150 ml, 330 ml): 18 months
  Tubular-film cartridge (300 ml): 9 months

Setting instructions

Perforated brick



Solid brick



Concrete

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WIT-PM 200

WIT-PM 200 Injection Mortar (temperature of anchoring base ≥ –5 °C)**:**
Masonry of perforated and solid brick, uncracked concrete

1

2

3

Designation	Contents [ml]	Scope of delivery	ETA approval	Art. No.	P. Qty.
1 WIT-PM 200	**420**	Mortar cartridge of 420 ml (coaxial) & 1 static mixer	ETA-12/0569 ETA-13/0037	**5918 242 420**	1 12
2 WIT-PM 200	**150**	Mortar cartridge of 150 ml & 1 static mixer + 1 press-out piston (for processing with a silicone application gun)		**5918 241 150**	1 12
3 WIT-PM 200	**300**	Mortar cartridge of 300 ml & 1 static mixer (for processing with a silicone application gun)		**5918 242 300**	1 12

WIT-PM 200 accessory parts:		
Designation	**Art. No.**	**P. Qty.**
Application Gun **(420 ml)**	**0891 430 09**	1
HandyMax Application Gun	**0891 007**	1
Static Mixer	**0903 420 001**	10
Static Mixer Extension, 10 x 200 mm	**0903 420 004**	10

Masonry: Performance Data and Characteristic Installation Values

Anchor diameter			**M8**		**M10**			**M12**		**M16**	
SH Plastic Sieve Sleeve			Without SH	12 x 80	Without SH	16 x 85	16 x 130	Without SH	20 x 85	Without SH	20 x 85
Solid brick	≥ CB 28	N_{perm} [kN]	0.86	1.0	0.86	1.0	1.43	0.71	–	1.29	–
		V_{perm} [kN]	0.86	1.0	0.86	1.0	1.43	0.71	–	1.29	–
Solid sand-lime brick	≥ SSLB 20	N_{perm} [kN]	1.71	1.43	1.71	1.43	1.43	2.0	–	1.71	–
		V_{perm} [kN]	1.14	1.43	1.0	1.14	1.43	1.43	–	1.43	–
Vertically perforated brick	≥ VPB 12	N_{perm} [kN]	–	0.43	–	0.57	0.86	–	1.0	–	1.0
		V_{perm} [kN]	–	0.43	–	0.57	0.71	–	1.0	–	1.0
Perforated sand-lime brick	≥ PSLB 12	N_{perm} [kN]	–	1.0	–	0.86	1.29	–	0.86	–	0.86
		V_{perm} [kN]	–	0.71	–	0.71	0.71	–	0.71	–	0.71
Nom. drill dia.		d_0 [mm]	10	12	12	16	16	14	20	18	20
Drilled hole depth		h_0 ≥ [mm]	80	85	90	90	135	100	90	100	90
Installation depth of sieve sleeve		h_{nom} = [mm]	–	80	–	85	130	–	85	–	85
Effective anchoring depth		h_{ef} = [mm]	80	80	90	85	130	100	85	100	85
Through-hole in the component being connected		d_f ≤ [mm]	9	9	12	12	12	14	14	18	18
Torque while installing anchor		T_{inst} ≤ [mm]	2								

Uncracked concrete: Performance Data and Characteristic Installation Values

Anchor diameter			**M8**	**M10**	**M12**	**M16**	**M20**	**M24**
Permissible central tensile load at 24 °C/40 °C (single anchor, uncracked concrete)		N_{perm} [kN] 24 °C[1]/40 °C[2]	6.4	13.9	13.9	19.8	29.8	37.7
Permissible transverse load (single anchor, uncracked concrete)	**Galvanized steel, 5.8**	V_{perm} [kN] 24 °C[1]/40 °C[2]	5.1	8.6	12.0	22.3	34.9	50.3
	Stainless steel A4-70	V_{perm} [kN] 24 °C[1]/40 °C[2]	5.9	9.2	13.7	25.2	39.4	56.8
Nom. drill dia.		d_0 [mm]	10	12	14	18	24	28
Drilled hole depth/Anchoring depth		h_0/h_{ef} [mm]	80	90	110	125	170	210
Minimum edge spacing		c_{min} [mm]	40	50	60	80	100	120
Minimum axial spacing		s_{min} [mm]	40	50	60	80	100	120
Minimum component thickness		h_{min} [mm]	110	120	140	160	215	260
Through-hole in the component being connected		d_f ≤ [mm]	9	12	14	18	22	26
Torque while installing anchor		T_{inst} ≤ [mm]	10	20	40	60	120	150

[1] Maximum long-term temperature
[2] Maximum short-term temperature

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WIT-PM 200

Anchoring in masonry (solid and perforated brick)

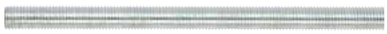
Masonry: Sieve sleeves

Designation	Nom. drill dia. d_0 [mm]	Drill hole depth h_0 [mm]	Anchoring depth h_{ef} [mm]	Suitable for anchor rod	Approval ETA	Art. No.	P. Qty.
SH 12 x 80	12	85	80	M8	ETA-13/0037	**0903 44 123**	20
SH 16 x 85	16	90	85	M10		**0903 44 164**	
SH 16 x 130	16	135	130	M10		**0903 44 165**	
SH 20 x85	20	90	85	M12 and M16		**0903 44 203**	

Masonry: Pass-through sieve sleeve

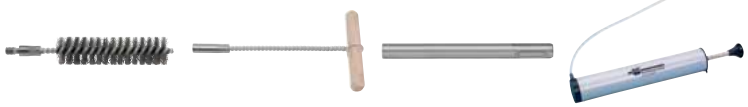
Designation	Nom. drill dia. d_0 [mm]	Drill hole depth h_0 [mm]	Anchoring depth h_{ef} [mm]	Suitable for anchor rod	Approval ETA	Art. No.	P. Qty.
SH 16 x 130/200	16	340	130	M10	ETA-13/0037	**0903 44 163**	10

Masonry: Anchor rods



Dia-meter	Processed without sieve sleeve			Processed with sieve sleeve			Suitable for sieve sleeve	Galvanized steel Steel quality: 5.8 Art. No.	Stainless steel A4-70 Art. No.	P. Qty.
	Nom. drill dia. d_0 [mm]	Anchoring depth h_{ef} [mm]	Drill hole depth h_0 [mm]	Nom. drill dia. d_0 [mm]	Anchoring depth h_{ef} [mm]	Drill hole depth h_0 [mm]				
M8	10	80	80	12	80	85	SH 12 x 80	**5916 008 999**	**5916 108 999**	10
M10	12	90	90	16	85 130 130	90 135 135 + t_{fix}	SH 16 x 85; SH 16 x 130; SH 16 x 130/200	**5916 010 999**	**5916 110 999**	
M12	14	100	100	20	85	90	SH 20 x 85	**5916 012 999**	**5916 112 999**	
M16	18	100	100	20	85	90	SH 20 x 85	**5916 016 999**	**5916 116 999**	

Masonry: Cleaning accessories



For diameter		Nom. drill dia. d_0 [mm]	Cleaning Brush Art. No.	Handle Art. No.	Machine Mounting Art. No.	Blow-Out Pump Art. No.	P. Qty.
M8	Without sieve sleeve	10	**0905 499 021**	**0905 499 103**	**Hexagon: 0905 499 101** **SDS plus: 0905 499 102**	**0903 990 001**	1
	With SH 12 Sieve Sleeve	12	**0905 499 022**				
M10	Without sieve sleeve	12	**0905 499 022**				
	With SH 16 Sieve Sleeve	16	**0905 499 025**				
M12	Without sieve sleeve	14	**0905 499 023**				
	With SH 20 Sieve Sleeve	20	**0905 499 026**				
M16	Without sieve sleeve	18	**0905 499 024**				
	With SH 20 Sieve Sleeve	20	**0905 499 026**				

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WIT-PM 200

Anchoring in uncracked concrete

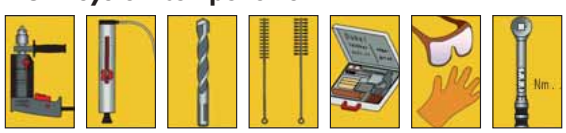
Uncracked concrete: Anchor rods, galvanized steel 5.8 and A4-70 stainless steel

Dia-meter	Fastening height t_{fix} [mm]	Total length L [in mm]	Effective anchoring depth h_{ef} [mm]	Nom. drill dia. d_0 [mm]	Drill hole depth $h_0 \geq$ [mm]	ETA approval	Galvanized steel Steel quality: 5.8 Art. No.	Stainless steel A4-70 Art. No.	P. Qty.
M8	20	110	80	10	80	ETA-12/0569	5915 108 110	5915 208 110	10
	60	150					5915 108 150	5915 208 150	
	–	1,000					5916 008 999	5916 108 999	
M10	15	115	90	12	90		5915 110 115	5915 210 115	
	30	130					5915 110 130	5915 210 130	
	65	165					5915 110 165	5915 210 165	
	90	190					5915 110 190	5915 210 190	
	–	1,000					5916 010 999	5916 110 999	
M12	10	135	110	14	110		5915 112 135	5915 212 135	
	35	160					5915 112 160	5915 212 160	
	85	210					5915 112 210	5915 212 210	
	125	250					5915 112 250	5915 212 250	
	175	300					5915 112 300	5915 212 300	
	–	1,000					5916 012 999	5916 112 999	
M16	20	165	125	18	125		5915 116 165	5915 216 165	
	45	190					5915 116 190	5915 216 190	
	85	230					5915 116 230	5915 216 230	
	105	250					5915 116 250	5915 216 250	
	155	300					5915 116 300	5915 216 300	
	–	1,000					5916 016 999	5916 116 999	
M20	20	220	170	24	170		5915 120 220	5915 220 220	
	60	260					5915 120 260	5915 220 260	
	100	300					5915 120 300	5915 220 300	
	–	1,000					5916 020 999	5916 120 999	5
M24	15	260	210	28	210		5915 124 260	5915 224 260	
	55	300					5915 124 300	5915 224 300	
	–	1,000					5916 024 999	5916 124 999	

Uncracked concrete: Cleaning accessories

For diameter	Nom. drill dia. d_0 [mm]	Cleaning Brush Art. No.	Extension Art. No.	Machine Mounting Art. No.	Blow-Out Pump Art. No.	P. Qty.
M8	10	0905 499 001	0905 499 111	Hexagon: 0905 499 101 SDS plus: 0905 499 102	0903 990 001	1
M10	12	0905 499 002				
M12	14	0905 499 003				
M16	18	0905 499 004				
M20	24	0905 499 005				
M24	28	0905 499 008				

Würth system components



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