



German Technology, Precision Installation.

Founded in 2019 through a strategic brand and technology transfer from Germany's KALM (www.kalm.de), AKALM (www.akalm.com) leverages this strong heritage to locally engineer and manufacture advanced building solutions in China.

Marking an evolution from professional manufacturing to a dedicated focus on the AKALM brand, our products consistently meet the highest German standards for quality, reliability, and safety. Our field engineers and sales team partner with you throughout every project phase – from conceptual planning to final implementation – co-creating optimized, customized solutions.



German Technology

Making Installation Better

AIT Anchor System

AKALM. Making Installation Better.

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Introduction to AIT-Anchor System									
Application	Base Material		International Approvals	Anchor Type	Benefits	Anchor Size	Specifications		
	Cast concrete	Precast concrete	Grout	SAK full epoxy	SAK full epoxy	SAK full epoxy	SAK full epoxy	SAK full epoxy	SAK full epoxy
Chemical anchor selector Application on concrete substrates									
High-Strength Epoxy Anchoring Adhesive AIT-VMK-SF	●	●	●	●	● High load capacity ● Suitable for large diameter post-installed rebar ● Suitable for dry and water saturated application ● ETA Approved for 100 years working life	M8-M30	●	●	●
Injection hybrid mortar AIT-VMK-SF	●	●	●	●	● High-performance fast-curing solution ● ETA Approved for damp hole ● Safe and flow-free	Central rod Threaded rod M8-M30	●	●	●
Chemical anchor capsule AIT-VMK-SF	●	●	●	●	● ETA Approved for damp hole ● Fast, simple and safe installation ● UV-protective glass tube packaging	M8-M30	●	●	●
Application for Special Substrates									
Anchorage on masonry	●	●	●	●	● Styrene-free & odorless ● Moisture-free	M8-M30	●	●	●
Mechanical anchor selector Application on concrete substrates									
RSK Heavy duty expansion anchor	●	●	●	●	● High tensile and shear load capacity, suitable for heavy-duty fixings ● Proven and highly standardized, meets full-scale quality control and inspection ● Designed for concrete substrates with varying strengths	M8-M24	●	●	●
RSK Undercut anchor	●	●	●	●	● Maximum edge and spacing distance ● Proven and highly standardized, meets full-scale quality control and inspection ● Certified per Chinese standards for seismic applications	M8-M16	●	●	●
RSK Wedge anchor	●	●	●	●	● High resistance for reduced number thickness, short spacing and edge distance ● ETA approved for cracked and non-cracked concrete ● Perfect for through fixings	M8-M30	●	●	●
RSK Screw anchor	●	●	●	●	● Small edge and spacing distance ● High pullout force ● Low drilling and fixing effort	M8-M16	●	●	●
SAK Drop-in anchor	●	○	●	●	● Suitable for all screws and threaded rods in masonry ● Low setting depth reduces filling time ● No concrete chipping required	M8-M16	●	●	●
RSK Through-bolt sleeve anchor	●	○	●	●	● Quick and easy installation ● Durable and long-lasting ● Low drilling effort	M8-M16	●	●	●
● = Very applicable ○ = Applicable									

Application Examples of Rebar Planting			
	Floor slab connection - Intermediate floor slabs - Structural alterations - Reinstate temporary openings, e.g. cranes, debris removal - simplified construction methods - flexibility of construction methods - unobstructed temporary openings - reduced risk of reinforcement damage		Wall and beam connections - Structural extension - Horizontal starter bars - simplified handling of form work - reinforcement continuity - small drill hole dimensions
	Vertical connections - New columns, piers - Structural enhancement - Pile caps - accurate location - no complex reinforcement fixing - unobstructed site access		Major structural repair - bridge parapet renovation - Structural upgrading - Concrete remedial works - parapet renovation - reduced concrete removal - avoid reinforcement welding - or similar connections - overhead installation
	Structural connections - Staircases - Manholes - Corbels - accurate location of starter bars - allows complex details - simplified wall formwork and joint preparation - odor free for confined space working		Retaining walls - Diaphragm walls - Connecting walls - Curtain walls - easy application - small diameter drill holes - connection of bent and hooked bars
	Concrete overlay - Bridge deck renovation - Structural bonding across composite interfaces - Structural upgrading of slabs and beams - rapid serial application - small hole dimensions - quick curing		Cantilever connections - Balcony - Access platforms - Landings - negligible displacement - deformed bar fixing - high confidence - equivalent to cast-in - short rebar exposure avoids rust staining

AIT-VMK-SF 380 Fast-Curing Vinyl Ester Adhesive

Akalm AIT-VMK-SF 380 is a fast-curing, two-component vinyl ester adhesive for post-installed rebar and anchoring in both concrete and masonry. This formulation ensures:

- Reliability:**
 - High-strength anchoring performance even under harsh conditions
 - Low material shrinkage and fast-curing reaction
 - Post-installed rebars perform like cast-in connections

- Convenience:**
 - Low injection force, facilitating quick and smooth work
 - A variety of injection guns available to meet different needs
 - Odorless

- Notes:**
 - All specified time intervals are measured from the initial mixing of the gel (through static mixer)
 - During application, the temperature of the cartridge should be between +5°C and 25°C

Substrate Temperature [°C]	Working Time (min)	Curing Time (min)
5-15	25	180
15-20	12	90
20-30	4	45
30-40	3	25
>40	2	15

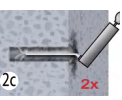
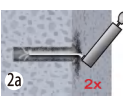
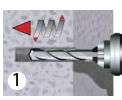
* In wet base material the curing time must be doubled

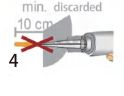
For more information, please refer to the ETA certification.

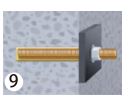
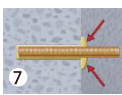




Application steps of anchoring adhesives







AIT-VMK-RE 585 High-Strength Epoxy Anchoring Adhesive

Akalm AIT-VMK-RE 585 is a high-strength modified epoxy resin adhesive suitable for anchor bolt and rebar planting applications. Its innovative formulation ensures:

- Reliability:**
 - Extremely high load-bearing capacity across various diameter ranges (8 to 32mm)
 - ETA assessment for anchoring inc. C1 and C2 seismic and ETA for rebar inc. fire and seismic
 - Negligible shrinkage
 - Suitable for hammer-drilled and water-saturated holes
 - Low sensitivity to large-sized and moist holes

- Convenience:**
 - Low injection force enables rapid and smooth operation
 - Compatible with various injection guns to meet different application needs
 - Odorless anchor gel formulation

- Notes:**
 - All specified time intervals are measured from the initial mixing of the gel (through static mixer)
 - During application, the temperature of the cartridge should be between +5°C and 25°C

Substrate Temperature [°C]	Working Time (min)	Curing Time (min)
<5 to -1	240	200
±0 to +4	150	90
+5 to +9	120	40
+10 to +19	30	18
+20 to +29	14	10
+30 to +40	7	5

* In wet base material the curing time must be doubled

For more information, please refer to the ETA certification.





Chemical Anchoring Adhesives

Fast-Curing Vinyl Ester Adhesive
Akalm AIT-VMK-SF380



150ml/345ml/380ml

ETA-20/0627

High-Strength Epoxy Anchoring Adhesive
Akalm AIT-VMK-RE 585



385ml/585ml

ETA-22/0110
ETA-22/0111

Dispensing tool



Application Examples of Rebar Planting			
Technical Support - Anchor Selection - Design calculation of anchoring connections - Rapid assistance and necessary on-site guidance - Continuous training & knowledge transfer - Field pull-out test	Professional Solutions - Analyze the application - Preliminary anchor selection - Calculation & verification - Punctual delivery - Technical handover - Installation guidance	Our Advantages - German-originated formulation & processes - Professional anchorage design software - Advanced in-house testing laboratory - Comprehensive application coverage - Reliable quality control system - Competitive pricing	



ALT Anchor System



Chemical Anchors

													
High-Strength Epoxy Anchoring Adhesive		High-Strength Epoxy Anchoring Adhesive		Fast-Curing Vinyl ester adhesive		Fast-Curing Vinyl ester adhesive		Fast-Curing Vinyl ester adhesive		Chemical anchor capsule		Dispensing tool	
A11-WM-EP 585		A11-WM-EP 385		A11-WM-SF 380		A11-WM-SF 345		A11-WM-SF 150		A11-PRK W8x80		WM-SF 380-E di dispenser	
2010012		2010011		2010003		2010002		2010001		2010021		2010007	
										2010022		2010008	
										A11-PRK W12x110		2010023	
										A11-PRK W16x125		2010024	
										A11-PRK W20x170		2010025	
										A11-PRK W24x210		2010026	
										A11-PRK W30x270		2010027	
												WM-RE 385-H di dispenser	
												2010013	
												WM-RE 345-H di dispenser	
												2010017	
												WM-RE 345-E di dispenser	
												2010019	

Anchor Rods

Zinc-plated hex bolt rod 5.8		Hot dip galvanized hex bolt rod 5.8		Zinc-plated hex bolt rod 8.8		Hot dip galvanized hex bolt rod 8.8		Stainless steel hex bolt rod		Zinc-plated threaded rod 8.8		Hot dip galvanized threaded rod 8.8		Stainless steel threaded rod		Control rod hot dip galvanized 8.8		Sleeve Nylon		Sleeve Metal	
ASK M8x10, 80x5 8		ASK-F M8x110, 80x5 8		ASK M12x10, 80x8 8		ASK-F M8x10, 80x8 8		ASK-R M8x10-44		ASK M10x20, 80x8 8		ASK-F M10x20, 80x8 8		ASK-R M10x20-44		ASK-F M16x125, 30, 80x8 8		SPK-M W12x30		SPK-M W12x1000	
2012250		2012250		2012250		2012206		2014202		2011202		2017100		2011100		2011013		2010050		2010057	
ASK M10x30, 80x5 8		ASK-F M10x30, 80x5 8		ASK M16x15, 80x8 8		ASK-F M10x30, 80x8 8		2014203		2017101		ASK-F M10x90, 80x8 8		ASK-R M10x90-44		ASK-F M16x125, 60, 80x8 8		2010104		2010058	
2012251		2012251		2012251		2012210		2014204		2017102		ASK-F M10x120, 80x8 8		2011102		ASK-F M16x125, 100, 80x8 8		2010105		2010059	
ASK M16x15, 80x5 8		ASK-F M12x160, 80x5 8		ASK M16x15, 80x8 8		ASK-F M16x15, 80x8 8		2014211		2017104		ASK-F M10x130, 80x8 8		2011103		ASK-F M16x125, 145, 80x8 8		2010106		2010060	
2012252		2012252		2012252		2012219		2014212		2017105		ASK-F M10x145, 80x8 8		2011104		ASK-F M20x170, 50, 80x8 8		2010107			
ASK M10x10, 80x5 8		ASK-F M16x160, 80x5 8		ASK M16x15, 80x8 8		ASK-F M16x200, 80x8 8		2014221		2017106		ASK-F M10x160, 80x8 8		2011105		ASK-F M20x170, 70, 80x8 8		2010108			
2012253		2012253		2012221		2011212		2014222		2017107		ASK-F M10x180, 80x8 8		2011106		2010109		2010054		2010055	
ASK M12x10, 80x5 8		ASK-F M16x190, 80x5 8		ASK M16x15, 80x8 8		ASK-R M20x290-44		2014222		2017107		ASK-F M10x180, 80x8 8		ASK-R M10x180-44		ASK-F M20x170, 95, 80x8 8		SPK-M W20x200		2010056	
2012254		2012254		2012222		2011213		2014222		2017107		ASK-F M10x180, 80x8 8		2011106		2010109					

Metal Anchors

					
Zinc-plated wedge anchor		Hot dip galvanized wedge anchor		Stainless steel wedge anchor	
KOK M6x5 5/-/-	2022097	KOK-F M6x5 5/-/-	2021197	KOK-R M6x5 5/-/- A4	2024971
KOK M8x70 20/10/-	2022098	KOK-F M8x70 20/10/-	2021998	KOK-R M8x70 20/10/- A4	2024981
KOK M8x65 55/25/-	2022099	KOK-F M8x65 55/25/-	2021099	KOK-R M8x65 55/25/- A4	2024991
KOK M8x105 55/45/15	2022100	KOK-F M8x105 55/45/15	2021100	KOK-R M8x105 55/45/15 A4	2024992
KOK M8x130 80/70/40	2022101	KOK-F M8x130 80/70/40	2021101	KOK-R M8x130 80/70/40	2024993
KOK M10x68 5/-/-	2022102	KOK-F M10x68 5/-/-	2021102	KOK-R M10x68 5/-/- A4	2024994
KOK M10x83 20/10/-	2022105	KOK-F M10x83 20/10/-	2021105	KOK-R M10x83 20/10/- A4	2024995
KOK M12x65 5/-/-	2022106	KOK-F M12x65 5/-/-	2021106	KOK-R M12x65 5/-/- A4	2024996
KOK M10x13 50/40/10	2022107	KOK-F M10x13 50/40/10	2021107	KOK-R M10x13 50/40/10 A4	2024997
KOK M10x33 70/60/30	2022108	KOK-F M10x33 70/60/30	2021108	KOK-R M10x33 70/60/30 A4	2024998
KOK M10x55 90/80/50	2022109	KOK-F M10x55 90/80/50	2021109	KOK-R M10x55 90/80/50 A4	2024999
KOK M12x100 20/5/-	2022110	KOK-F M12x100 20/5/-	2021110	KOK-R M12x100 20/5/- A4	2024100
KOK M12x68 106/95/65	2022111	KOK-F M12x68 106/95/65	2021111	KOK-R M12x68 106/95/65 A4	2024101
KOK M12x145 65/50/15	2022112	KOK-F M12x145 65/50/15	2021112	KOK-R M12x145 65/50/15 A4	2024102
KOK-F M10x68 50/40/10	2021113	KOK-F M10x68 50/40/10	2021113	KOK-R M10x68 50/40/10 A4	2024103
KOK-F M12x65 55/50/15	2021114	KOK-F M12x65 55/50/15	2021114	KOK-R M12x65 55/50/15 A4	2024104
KOK-F M12x45 145/130/95	2021115	KOK-F M12x45 145/130/95	2021115	KOK-R M12x45 145/130/95 A4	2024105
KOK-F M10x13 50/40/10	2024106	KOK-F M10x13 50/40/10	2024106	KOK-R M10x13 50/40/10 A4	2024107
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KOK-F M12x100 20/5/-	2024111	KOK-F M12x100 20/5/-	2024111	KOK-R M12x100 20/5/- A4	2024112
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KOK-F M10x55 90/80/50	2024120	KOK-F M10x55 90/80/50	2024120	KOK-R M10x55 90/80/50 A4	2024121
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KOK-F M12x45 145/130/95	2024126	KOK-F M12x45 145/130/95	2024126	KOK-R M12x45 145/130/95 A4	2024127
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KOK-F M12x145 65/50/15	2024150	KOK-F M12x145 65/50/15	2024150	KOK-R M12x145 65/50/15 A4	2024151
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KOK-F M10x13 50/40/10	2024163	KOK-F M10x13 50/40/10	2024163	KOK-R M10x13 50/40/10 A4	2024164
KOK-F M10x33 70/60/30	2024164	KOK-F M10x33 70/60/30	2024164	KOK-R M10x33 70/60/30 A4	2024165
KOK-F M10x55 90/80/50	2024165	KOK-F M10x55 90/80/50	2024165	KOK-R M10x55 90/80/50 A4	2024166
KOK-F M12x100 20/5/-	2024166	KOK-F M12x100 20/5/-	2024166	KOK-R M12x100 20/5/- A4	2024167
KOK-F M12x68 106/95/65	2024167	KOK-F M12x68 106/95/65	2024167	KOK-R M12x68 106/95/65 A4	2024168
KOK-F M12x145 65/50/15	2024168	KOK-F M12x145 65/50/15	2024168	KOK-R M12x145 65/50/15 A4	2024169
KOK-F M10x68 50/40/10	2024169	KOK-F M10x68 50/40/10	2024169	KOK-R M10x68 50/40/10 A4	2024170
KOK-F M12x65 55/50/15	2024170	KOK-F M12x65 55/50/15	2024170	KOK-R M12x65 55/50/15 A4	2024171
KOK-F M12x45 145/130/95	2024171	KOK-F M12x45 145/130/95	2024171	KOK-R M12x45 145/130/95 A4	2024172
KOK-F M10x13 50/40/10	2024172	KOK-F M10x13 50/40/10	2024172	KOK-R M10x13 50/40/10 A4	2024173
KOK-F M10x33 70/60/30	2024173	KOK-F M10x33 70/60/30	2024173	KOK-R M10x33 70/60/30 A4	2024174
KOK-F M10x55 90/80/50	2024174	KOK-F M10x55 90/80/50	2024174	KOK-R M10x55 90/80/50 A4	2024175
KOK-F M12x100 20/5/-	2024175	KOK-F M12x100 20/5/-	2024175	KOK-R M12x100 20/5/- A4	2024176
KOK-F M12x68 106/95/65	2024176	KOK-F M12x68 106/95/65	2024176	KOK-R M12x68 106/95/65 A4	2024177
KOK-F M12x145 65/50/15	2024177	KOK-F M12x145 65/50/15	2024177	KOK-R M12x145 65/50/15 A4	2024178
KOK-F M10x68 50/40/10	2024178	KOK-F M10x68 50/40/10	2024178	KOK-R M10x68 50/40/10 A4	2024179
KOK-F M12x65 55/50/15	2024179	KOK-F M12x65 55/50/15	2024179	KOK-R M12x65 55/50/15 A4	2024180
KOK-F M12x45 145/130/95	2024180	KOK-F M12x45 145/130/95	2024180	KOK-R M12x45 145/130/95 A4	2024181
KOK-F M10x13 50/40/10	2024181	KOK-F M10x13 50/40/10	2024181	KOK-R M10x13 50/40/10 A4	2024182
KOK-F M10x33 70/60/30	2024182	KOK-F M10x33 70/60/30	2024182	KOK-R M10x33 70/60/30 A4	2024183
KOK-F M10x55 90/80/50	2024183	KOK-F M10x55 90/80/50	2024183	KOK-R M10x55 90/80/50 A4	2024184
KOK-F M12x100 20/5/-	2024184	KOK-F M12x100 20/5/-	2024184	KOK-R M12x100 20/5/- A4	2024185
KOK-F M12x68 106/95/65	2024185	KOK-F M12x68 106/95/65	2024185	KOK-R M12x68 106/95/65 A4	2024186
KOK-F M12x145 65/50/15	2024186	KOK-F M12x145 65/50/15	2024186	KOK-R M12x145 65/50/15 A4	2024187
KOK-F M10x68 50/40/10	2024187	KOK-F M10x68 50/40/10	2024187	KOK-R M10x68 50/40/10 A4	2024188
KOK-F M12x65 55/50/15	2024188	KOK-F M12x65 55/50/15	2024188	KOK-R M12x65 55/50/15 A4	2024189
KOK-F M12x45 145/130/95	2024189	KOK-F M12x45 145/130/95	2024189	KOK-R M12x45 145/130/95 A4	2024190
KOK-F M10x13 50/40/10	2024190	KOK-F M10x13 50/40/10	2024190	KOK-R M10x13 50/40/10 A4	2024191
KOK-F M10x33 70/60/30	2024191	KOK-F M10x33 70/60/30	2024191	KOK-R M10x33 70/60/30 A4	2024192
KOK-F M10x55 90/80/50	2024192	KOK-F M10x55 90/80/50	2024192	KOK-R M10x55 90/80/50 A4	2024193
KOK-F M12x100 20/5/-	2024193	KOK-F M12x100 20/5/-	2024193	KOK-R M12x100 20/5/- A4	2024194
KOK-F M12x68 106/95/65	2024194	KOK-F M12x68 106/95/65	2024194	KOK-R M12x68 106/95/65 A4	2024195
KOK-F M12x145 65/50/15	2024195	KOK-F M12x145 65/50/15	2024195	KOK-R M12x145 65/50/15 A4	2024196
KOK-F M10x68 50/40/10	2024196	KOK-F M10x68 50/40/10	2024196	KOK-R M10x68 50/40/10 A4	2024197
KOK-F M12x65 55/50/15	2024197	KOK-F M12x65 55/50/15	2024197	KOK-R M12x65 55/50/15 A4	2024198
KOK-F M12x45 145/130/95	2024198	KOK-F M12x45 145/130/95	2024198	KOK-R M12x45 145/130/95 A4	2024199
KOK-F M10x13 50/40/10	2024199	KOK-F M10x13 50/40/10	2024199	KOK-R M10x13 50/40/10 A4	2024200
KOK-F M10x33 70/60/30	2024200	KOK-F M10x33 70/60/30	2024200	KOK-R M10x33 70/60/30 A4	2024201
KOK-F M10x55 90/80/50	2024201	KOK-F M10x55 90/80/50	2024201	KOK-R M10x55 90/80/50 A4	2024202
KOK-F M12x100 20/5/-	2024202	KOK-F M12x100 20/5/-	2024202	KOK-R M12x100 20/5/- A4	2024203
KOK-F M12x68 106/95/65	2024203	KOK-F M12x68 106/95/65	2024203	KOK-R M12x68 106/95/65 A4	2024204
KOK-F M12x145 65/50/15	2024204	KOK-F M12x145 65/50/15	2024204	KOK-R M12x145 65/50/15 A4	2024205
KOK-F M10x68 50/40/10	2024205	KOK-F M10x			