

June 21, 2022

CHEMICAL ANCHOR SYSTEMS

Specification Reference: 901.05

SM Material Code: 506M00020

c This list documents the approval of chemical systems for anchoring deformed steel rebar or grouting load transfer dowels. These chemical anchor systems are approved for pullout loads on deformed rebar which do not exceed the yield requirement for the corresponding rebar size of grade 60 (420) steel. These systems are applicable for rebar sizes not exceeding ENG. #7 (METRIC #22). If the rebar exceeds size ENG. #7 (METRIC #22), the manufacturer shall provide a type B certification for the pullout load of the specified rebar. Testing will be in accordance with ASTM E 488.

Systems shall be installed in accordance with the manufacturer's instructions. Horizontal installations of rebar or dowels require special consideration for proper retention of the material in the hole. The following spacing and edge distance requirements shall be met.

Embedment (E)	Spacing Between Anchors min. (S)	Edge Distance min. (M)
<6.0d	2.00E	1.00E
6.0d to =<8.0d	1.50E	1.00E
>8.0d	1.00E	0.75E

(d = diameter of rebar)

If the above requirements are not satisfied, contact the Materials and Tests Division.

It should be noted that FHWA Technical Advisory T5140.34 issued on January 16, 2018 strongly discourages the application of anchor systems utilizing adhesives for permanent sustained tension applications or overhead applications. If chemical anchors are to be used in either of these applications, the design and installation must comply with all of the requirements set forth in the technical advisory.

Source Code	Manufacturer Product Name	Approval Number	Comments
9540	ADHESIVES TECHNOLOGY CORP W168050 ASF - 1000 FAST CURE ACRYLIC ADHESIVE 10.1 & 28 oz. Cartridge Systems		
9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND ASF-2000 28 oz. Cartridge Systems	W218950	
9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND EPX-3CC EPOXY ANCHORING SYSTEM A9-EPX3CC, A22-EPX3CC & A53-EPX3CC Cartridge Systems	W208050	
9540	ADHESIVES TECHNOLOGY CORPW188050 ULTRABOND HS - 1CC EPOXY ANCHORING SYSTEM A9-HS1CC, A22-HS1CC & A53-HS1CC Cartridge Systems		
9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND HS-200	W028050	
9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND 1- ANCHORING EPOXY 21.2oz Cartridge Systems	W228050	

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9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND 365CC HYBRID ADHESIVE 13 & 20 oz. Cartridge Systems	W178055	
9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND 1300 - Dowling Epoxy	W218952	
9540	ADHESIVES TECHNOLOGY CORP----- CRACKBOND 2100 MV	W078050	
9540	ADHESIVES TECHNOLOGY CORP----- CRACKBOND 2300 GEL (formerly ULTRABOND 2300)	W028985	
9623	AEROSMITH FASTENING SYSTEMS----- SURE-SET EPOXY ACRYLATE 28 oz. Dual Cartridge System	W198047	
9623	AEROSMITH FASTENING SYSTEMS----- SURE-SET PE EPOXY RESIN SYSTEM 10 & 21 oz. Cartridge System	W198046	
9633	ALEXANDER SCREW PRODUCTS, INC.----- FX-QE400 14 oz. Dual Cartridge System	W218951	
9312	AMBEX CONCRETE TECHNOLOGIES----- AMBEX ANCHORING CAPSULES	W068050	
9573	CORNERSTONE CONSTRUCTION MATERIAL, LLC ----- FASTRAC CE110 - LOW VISCOSITY INJECTION AND ANCHORING RESIN 15.2 oz. Cartridge System	W168060	
9573	CORNERSTONE CONSTRUCTION MATERIAL, LLC ----- FASTRAC CE220 - MEDIUM VISCOSITY ANCHORING EPOXY RESIN 20.28 oz. Cartridge System	W168061	
9573	CORNERSTONE CONSTRUCTION MATERIAL, LLC ----- FASTRAC CE308 - ANCHORING GEL 8.45, 20.28 & 50.7 oz. Cartridge Systems	W168065	
9602	DAYTON SUPERIOR CORP----- ALL WEATHER J51AW - ANCHORING GEL 8.5 & 28 oz. Cartridge Systems	W178060	
9602	DAYTON SUPERIOR CORP----- PROANCHOR ELITE - EPOXY ANCHORING GEL 9, 22 & 53 oz. Cartridge Systems	W208036	
9602	DAYTON SUPERIOR CORP----- SURE ANCHOR J50	W028062	

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9602	DAYTON SUPERIOR CORP ----- SURE ANCHOR I J51	W168063	
9602	DAYTON SUPERIOR CORP ----- SURE BOND J58	W208060	
9576	DEWALT ----- AC50-ACRYLIC ADHESIVE 28 oz. Dual Cartridge System	W188032	
9576	DEWALT ----- AC100+ GOLD	W168100	
9576	DEWALT ----- AC200+ ACRYLIC ADHESIVE 28 oz. Dual Cartridge System	W198044	
9576	DEWALT ----- HAMMER CAPSULE	W208032	
9576	DEWALT ----- PE1000+	W168105	
9576	DEWALT ----- PURE50+ EPOXY ANCHORING ADHESIVE	W168110	
9576	DEWALT ----- PURE110+ EPOXY ANCHORING SYSTEM	W168115	
8268	EUCLID CHEMICAL CO.----- DURAL FAST SET EPOXY GEL	W028148	
8268	EUCLID CHEMICAL CO.----- DURAL HS GEL - HIGH STRENGTH ANCHORING EPOXY RESIN 21.2 & 53 oz. Cartridge Systems	W188060	
8268	EUCLID CHEMICAL CO.----- DURAL ICC GEL - HYBRID ANCHORING ADHESIVE 20 oz. Cartridge System	W188055	
9538	FIVE STAR PRODUCTS, INC----- FIVE STAR RS ANCHOR GROUT	W028064	
4805	HILTI, INC.----- HIT-HY 200-A V3 HYBRID ADHESIVE (Accelerated Working Time)	W148050	
4805	HILTI, INC.----- HIT-HY 200-R V3 HYBRID ADHESIVE (Regular Working Time)	W148051	
4805	HILTI, INC.----- HIT-RE 10 INJECTABLE MORTAR 19.61 & 31.71 oz. Cartridge System	W188063	

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4805	HILTI, INC.----- HIT-RE 100 EPOXY RESIN SYSTEM 11.1, 16.9 & 47.3 oz. Foil Packs	W168057	
4805	HILTI, INC.----- HIT-RE 500 V3 EPOXY RESIN SYSTEM 11.1 & 16.9 oz. Foil Packs	W168070	
9533	ITW COMMERCIAL CONSTRUCTION NORTH AMERICA----- RED HEAD A7+ HYBRID ADHESIVE 28 & 10 oz. Cartridge Systems	W168075	
9533	ITW COMMERCIAL CONSTRUCTION NORTH AMERICA----- RED HEAD EPCON C6+ EPOXY RESIN SYSTEM (FORMERELY RED HEAD EPCON C6+) 15 & 30 oz. Cartridge Systems	W188051	
9533	ITW COMMERCIAL CONSTRUCTION NORTH AMERICA----- RED HEAD G5+ EPOXY RESIN SYSTEM 15.2 oz. Cartridge System	W178070	
9605	KAUFMAN PRODUCTS, INC----- SUREPOXY DBA EPOXY RESIN SYSTEM 22 oz. - Cartridge System	W148070	
9605	KAUFMAN PRODUCTS, INC----- SUREPOXY HM	W028077	
9605	KAUFMAN PRODUCTS, INC----- SUREPOXY 110	W028075	
9605	KAUFMAN PRODUCTS, INC----- SUREPOXY 117	W028076	
9537	KELKEN-GOLD, INC----- KELIGROUT	W028078	
9554	MASTER BUILDERS SOLUTIONS, LLC----- MasterEmaco ADH 326	W058084	
9554	MASTER BUILDERS SOLUTIONS, LLC----- MasterEmaco ADH 327	W058085	
9554	MASTER BUILDERS SOLUTIONS, LLC----- MasterEmaco ADH 327 RS	W058086	
9583	MITEK - USP STRUCTURAL CONNECTORS----- CIA GEL 6000-GP-DOT EPOXY FOR DOWELING 22 oz. - Cartridge System	W198048	
9311	MKT FASTENING LLC----- LIQUID ROC 200 HYBRID URETHANE 10 & 28 oz. Cartridge Systems	W188061	

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9311	MKT FASTENING LLC----- LIQUID ROC 500+ EPOXY ANCHORING ADHESIVE	W178080	
9311	MKT FASTENING LLC----- LIQUID ROC 700+ ACRYLIC ANCHORING ADHESIVE	W178081	
9528	POLYGEM, INC----- POLY-BAC 1257	W028086	
9528	POLYGEM, INC----- POLY-BAC 1605	W028087	
9532	PRIME RESINS, INC----- SPEED BOND #1	W028098	
9514	SIKA CORPORATION----- SIKA ANCHORFIX-500 EPOXY ANCHORING ADHESIVE For Uncracked Concrete	W148055	
9514	SIKA CORPORATION----- SIKA ANCHORFIX-2020 THIXOTROPIC, FAST CURING EPOXY ACRYLATE 10.1 fl. oz. Cartridge System	W208051	
9514	SIKA CORPORATION----- SIKA ANCHORFIX-3001 EPOXY ANCHORING ADHESIVE	W148056	
9514	SIKA CORPORATION----- SIKADUR 31 HI MOD GEL	W028975	
9514	SIKA CORPORATION----- SIKADUR 32 HI MOD EPOXY	W028977	
9514	SIKA CORP----- SIKADUR 33 RAPID SET GEL	W048977	
9543	SIMPSON STRONG-TIE CO., INC----- "AT-XP" HIGH-STRENGTH ACRYLIC ANCHORING ADHESIVE AT-XP10, AT-XP13 & AT-XP30 - Cartridge Systems	W208052	
9543	SIMPSON STRONG-TIE CO., INC----- "ET-HP" EPOXY-TIE ANCHORING ADHESIVE ET-HP22 and ET-HP56 - Cartridge Systems	W028978	
9543	SIMPSON STRONG-TIE CO., INC----- "SET" HIGH STRENGTH EPOXY-TIE ANCHORING ADHESIVE SET-PAC-EZ; SET22 & SET56 - Cartridge Systems	W028147	
9553	SPECHEM, LLC----- SPECPOXY 3000 FS	W058050	
9553	SPECHEM, LLC----- SPECPOXY 3000	W058051	

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9553	SPECICHEM, LLC----- SPECPOXY 2000	W058052	
9553	SPECICHEM, LLC----- SPECPOXY 1000	W058054	
9539	SUPERIOR EPOXIES & COATINGS, INC----- DOWEL BAR ADHESIVE-5	W028982	
9534	THERMAL CHEM ----- THERMAL CHEM INJECTION RESIN GEL PRODUCT 201	W028983	
9535	UNITEX BY DAYTON SUPERIOR----- PRO-POXY 200	W208061	
9535	UNITEX BY DAYTON SUPERIOR ----- PRO-POXY 204	W028989	
9535	UNITEX BY DAYTON SUPERIOR----- PRO-POXY 300	W028140	
9535	UNITEX BY DAYTON SUPERIOR----- PRO-POXY 300 FAST	W168141	
9535	UNITEX BY DAYTON SUPERIOR----- PRO-POXY 300 PASTE	W028142	
9535	UNITEX BY DAYTON SUPERIOR----- PRO-POXY 400	W028143	
9547	WEJ-IT FASTENING SYSTEMS----- INJECT-TITE	W028054	
9603	W. R. MEADOWS----- REZI-WELD GEL PASTE STATE EPOXY	W028144	