

March 28, 2011

CHEMICAL ANCHOR SYSTEMS

Specification Reference: 901.05

SM Material Code: 506M00020

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 TA 5140.30 issued on March 21, 2008 strongly discourages the application of anchor systems utilizing adhesives for permanent sustained tension applications or overhead applications until the FHWA is satisfied with an improved certification process that is developed to ensure long-term creep performance and that recognizes the effect of overhead installation.

Mat. Code	Source Code	Manufacturer Product Name	Approval Number	Comments
9371	9308	ADHESIVES TECHNOLOGY CORP----- ANCHOR IT HS-200	W028050	
9371	9540	ADHESIVES TECHNOLOGY CORP----- CRACKBOND LR 321	W078051	
9371	9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND 1	W038068	
9371	9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND A1	W078052	
9371	9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND 365	W098053	
9371	9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND 1300	W028984	
9371	9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND 2100	W078050	
9371	9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND 2300	W028985	
9371	9540	ADHESIVES TECHNOLOGY CORP----- ULTRABOND SPEED SET 2	W028986	

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9371	9513	AXSON NORTH AMERICA, INC.----- AKABOND 550	W028052	
9371	9513	AXSON NORTH AMERICA, INC.----- AKABOND 550 XP	W028053	
9371	9513	AXSON NORTH AMERICA, INC.----- AKABOND 550 XPP	W028051	
9371	9312	AMBEX CONCRETE TECHNOLOGIES----- AMBEX ANCHORING CAPSULES	W068050	
9371	9547	ANKR-TITE FASTENING SYSTEMS----- INJECT-TITE	W028054	
9371	9547	ANKR-TITE FASTENING SYSTEMS----- SLAM-TITE HAMMER-IN CHEMICAL CAPSULE	W028055	
9371	9515	BURKE----- BURKEPOXY INJECTION RESIN	W038053	
9371	9515	BURKE----- BURKEPOXY LV	W038054	
9371	9515	BURKE----- BURKEPOXY MV	W038052	
9371	9515	BURKE----- BURKEPOXY MV CLASS A LOW TEMP	W028056	
9371	9515	BURKE----- BURKEPOXY MVSF	W038055	
9371	9515	BURKE----- BURKEPOXY NS	W038056	
9371	9515	BURKE----- BURKEPOXY NS CLASS A LOW TEMP	W028057	
9371	9515	BURKE----- BURKEPOXY NS-P	W038057	
9371	9515	BURKE----- BURKEPOXY NS-RS	W038058	
9371	9515	BURKE----- BURKEPOXY NS-RS-P	W038059	
9371	9515	BURKE----- BURKEPOXY PISTOL PAC EZ	W028058	
9371	9542	CONCRETE CHEMICALS----- CHEMROC 400	W028059	
9371	9544	CONSPEC----- SPEC BOND CC	W038061	

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9371	9544	CONSPEC----- SPEC BOND 50	W038066	
9371	9544	CONSPEC----- SPEC BOND 100	W028060	
9371	9544	CONSPEC----- SPEC BOND 150	W038062	
9371	9544	CONSPEC----- SPEC BOND 200	W028061	
9371	9544	CONSPEC----- SPEC BOND 201	W038063	
9371	9544	CONSPEC----- SPEC BOND 300	W038064	
9371	9544	CONSPEC----- SPEC BOND 301	W038065	
9371	9544	CONSPEC----- SPEC INJECT	W038067	
9371	9602	DAYTON-SUPERIOR CORP----- SURE-ANCHOR EPOXY (J-50)	W028062	
9371	9602	DAYTON-SUPERIOR CORP ----- SURE-ANCHOR I (J-51)	W028063	
9371	8268	EUCLID CHEMICAL CO.----- DURAL FAST SET EPOXY GEL	W028148	
9371	9538	FIVE STAR PRODUCTS, INC----- FIVE STAR RS ANCHOR GROUT	W028064	
9371	9551	FOX INDUSTRIES----- FX-715	W038069	
9371	9536	HAUSMAN CORP----- HAUSMAN HI MOD MV	W028065	
9371	4805	HILTI, INC.----- HTE 50 - HIGH STRENGTH TRANSPORTATION EPOXY	W028069	
9371	4805	HILTI, INC.----- HIT HY 150	W028067	
9371	4805	HILTI, INC.----- HIT-HY150 MAX	W068051	
9371	4805	HILTI, INC.----- HIT-RE 500	W028070	
9371	9533	ITW RAMSET/REDHEAD----- EPCON A7	W028073	

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9371	9533	ITW RAMSET/REDHEAD EPCON C6	W028071	
9371	9533	ITW RAMSET/REDHEAD EPCON G5	W028072	
9371	9533	ITW RAMSET/REDHEAD NEW G5	W038060	
9371	9545	J DEDOES, INC TRUE GRIP 590 HI MOD GEL	W028074	
9371	9605	KAUFMAN PRODUCTS, INC SUREPOXY 110	W028075	
9371	9605	KAUFMAN PRODUCTS, INC SUREPOXY 117	W028076	
9371	9605	KAUFMAN PRODUCTS, INC SUREPOXY HM	W028077	
9371	9537	KELKEN-GOLD, INC KELIGROUT	W028078	
9371	9554	BASF CONSTRUCTION CHEMICALS, LLC-BUILDING SYSTEMS-- CONCREATIVE 1420	W058082	
9371	9554	BASF CONSTRUCTION CHEMICALS, LLC-BUILDING SYSTEMS-- CONCREATIVE LIQUID LPL	W058084	
9371	9554	BASF CONSTRUCTION CHEMICALS, LLC-BUILDING SYSTEMS-- CONCREATIVE PASTE LPL	W058085	
9371	9554	BASF CONSTRUCTION CHEMICALS, LLC-BUILDING SYSTEMS-- CONCREATIVE PASTE SPL	W058086	
9371	9311	MKT FASTENING LLC LIQUID ROC 500	W058080	
9371	9311	MKT FASTENING LLC LIQUID ROC 700	W058081	
9371	9509	POLY-CARB MARK-198.3 SUPER FAST SETTING MOISTURE INSENSITIVE EPOXY GROUT	W098080	
9371	9528	POLYGEM, INC POLY-BAC 1257	W028086	
9371	9528	POLYGEM, INC POLY-BAC 1605	W028087	
9371	9528	POLYGEM, INC POLYGROUT	W028088	
9371	9528	POLYGEM, INC POLYJECT 1295-1	W028089	

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9371	4807	POWERS FASTENERS, INC----- AC 5.5 PLUS	W028988	
9371	4807	POWERS FASTENERS, INC----- HAMMER CAPSULE	W028096	
9371	4807	POWERS FASTENERS, INC----- POWER FAST EPOXY INJ GEL SLOW SET	W028095	
9371	4807	POWERS FASTENERS, INC ----- POWER FAST EPOXY INJ GEL SLOW SET CART SY	W028093	
9371	4807	POWERS FASTENERS, INC ----- PE1000+	W088050	
9371	4807	POWERS FASTENERS, INC ----- AC100+ GOLD	W088051	
9371	4807	POWERS FASTENERS, INC ----- T308+ EPOXY	W098051	
9371	9532	PRIME RESINS, INC----- FAST LANE	W028099	
9371	9532	PRIME RESINS, INC----- SPEED BOND #1	W028098	
9371	9514	SIKA CORP ----- ANCHOR FIX-3	W038050	
9371	9514	SIKA CORP----- ANCHOR FIX-4	W038051	
9371	9514	SIKA CORPORATION----- SIKADUR 31 HI MOD GEL	W028975	
9371	9514	SIKA CORPORATION----- SIKADUR 32 HI MOD EPOXY	W028977	
9371	9514	SIKA CORP----- SIKADUR 33 RAPID SET GEL	W048977	
9371	9543	SIMPSON STRONG-TIE CO., INC----- "AT" HIGH STRENGTH ACRYLIC-TIE ANCHORING ADHESIVE AT13 and AT30 - CARTRIDGE SYSTEMS	W028980	
9371	9543	SIMPSON STRONG-TIE CO., INC----- "EDOT" EPOXY-TIE ANCHORING ADHESIVE EDOT22;EDOT56;EDOT1KT;EDOT10KT and EDOT100KT-CARTRIDGE SYSTEMS	W088140	
9371	9543	SIMPSON STRONG-TIE CO., INC----- "ET" EPOXY-TIE ANCHORING ADHESIVE ET22 and ET56 - CARTRIDGE SYSTEMS	W028978	

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9371	9543	SIMPSON STRONG-TIE CO., INC----- "SET" HIGH STRENGTH EPOXY-TIE ANCHORING ADHESIVE SET-PAC-EZ; SET22 and SET56 - CARTRIDGE SYSTEMS	W028147	
9371	9543	SIMPSON STRONG-TIE CO., INC----- "VGC" VINYLESTER GLASS CAPCULE ANCHORING ADHESIVE VGC37; VGC50; VGC62; VGC75 and VGC100 - CAPSULS	W028146	
9371	9553	SPECICHEM, LLC----- SPECPOXY 3000 FS	W058050	
9371	9553	SPECICHEM, LLC----- SPECPOXY 3000	W058051	
9371	9553	SPECICHEM, LLC----- SPECPOXY 2000	W058052	
9371	9553	SPECICHEM, LLC----- SPECPOXY 1000	W058054	
9371	9539	SUPERIOR EPOXIES & COATINGS, INC----- DOWEL BAR ADHESIVE-5	W028982	
9371	9534	THERMAL CHEM ----- THERMAL CHEM INJECTION RESIN GEL PRODUCT 201	W028983	
9371	9535	UNITEX----- PRO-POXY 200	W028987	
9371	9535	UNITEX----- PRO-POXY 204	W028989	
9371	9535	UNITEX----- PRO-POXY 300	W028140	
9371	9535	UNITEX----- PRO-POXY 300 FAST	W028141	
9371	9535	UNITEX----- PRO-POXY 300 PASTE	W028142	
9371	9535	UNITEX----- PRO-POXY 400	W028143	
9371	9552	UNIVERSAL FORM CLAMP----- UNIBOND MV	W048050	
9371	9552	UNIVERSAL FORM CLAMP----- UNIBOND GEL PASTE	W048051	
9371	9556	USP STRUCTURAL CONNECTOR----- CIA Gel 7000	W068050	
9371	9603	W. R. MEADOWS----- REZI-WELD GEL PASTE STATE EPOXY	W028144	