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.

	Spacing Between	Edge	
Embedment (E)	Anchors min. (S)	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 rehar)			

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.

Sourc	e Manufacturer	Approval	
Code	Product Name	Number	Comments
9540	ADHESIVES TECHNOLOGY CORP ASF - 1000 FAST CURE ACRYLIC ADHESIVE 10.1 & 28 oz. Cartridge Systems	- W1 68050	
9540	ADHESIVES TECHNOLOGY CORP ULTRABOND EPX-3CC EPOXY ANCHORING SYSTEM A9-EPX3CC, A22-EPX3CC & A53-EPX3CC Cartridge Syst		
9540	ADHESIVES TECHNOLOGY CORP ULTRABOND HS - 1CC EPOXY ANCHORING SYSTEM A9-HS1CC, A22-HS1CC & A53-HS1CC Cartridge Syst		
9540	ADHESIVES TECHNOLOGY CORPULTRABOND HS-200	- W 028050	
9540	ADHESIVES TECHNOLOGY CORPULTRABOND 1	- w 038068	
9540	ADHESIVES TECHNOLOGY CORP ULTRABOND 365CC HYBRID ADHESIVE 13 & 20 oz. Cartridge Systems	-W178055	
9540	ADHESIVES TECHNOLOGY CORP ULTRABOND 1300 - Dowling Epoxy	-W028984	

June 11, 2021

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9540 ADHESIVES TECHNOLOGY CORP-------W078050

CRACKBOND 2100 MV

9540 ADHESIVES TECHNOLOGY CORP------W028985

CRACKBOND 2300 GEL

(formerly ULTRABOND 2300)