



# Iowa Department of Transportation

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May 7, 2012

Ref. No. 435.074

Robert Antoinette  
Staff Engineer  
Powers Fasteners, Inc.  
2 Powers Lane  
Brewster, NY 10509

Subject: Approval of New Adhesive System, Appendixes A, B and D of IM 491.11

Dear Bob:

A recent technical review on the submitted test results concludes the Pure50+, an adhesive system manufactured by Powers Fasteners Inc. in compliant with Iowa DOT Materials Instructional Memorandum 491.11 (IM 491.11). The reported test results also indicate that the Pure50+ meets the creep criteria of ICC-ES AC58 (International Code Council, Evaluation Service). The tests were conducted by Iowa DOT Central Materials Laboratory, and the Stork Materials Technology in St. Paul, Minnesota.

As a result, the Pure50+ is accepted for use on Iowa road and highway projects, and will be placed on lists of the approved brands of polymer grouts and adhesive anchors, Appendixes A, B and D of IM 491.11, respectively. The approval may be withdrawn because of deficient test results, product changes, or unsatisfactory field performance.

This letter will serve as your certification. Please contact me if you have any questions.

Sincerely,

A handwritten signature in black ink, appearing to read 'Chengsheng Ouyang'.

Chengsheng Ouyang  
Cement and Concrete Engineer  
Materials

cc: K. Jones  
S. Moussalli  
M. Coles  
J. Smythe  
B. Boell

District Materials Engineers  
District Construction Engineers  
District Local System Engineers  
Resident Construction Engineers