



STATE OF MICHIGAN  
DEPARTMENT OF TRANSPORTATION  
LANSING

GRETCHEN WHITMER  
GOVERNOR

PAUL C. AJEGBA  
DIRECTOR

August 26, 2019

Mr. Guru Kumar  
700 High Grove Blvd.  
Glendale Heights, Illinois 60506

Dear Mr. Kumar:

Product Evaluation of Red Head A7+  
Cold Weather Epoxy Anchoring System

Thank you for submitting Red Head A7+ Cold Weather Epoxy Anchoring System, along with product literature and independent testing reports. The Michigan Department of Transportation (MDOT) has evaluated the submitted information and conducted quality assurance testing for this product.

Testing was completed in accordance with MDOT's Qualification Procedure for Adhesive Systems for Structural Anchors and Lane Ties, as outlined in Subsection 712.03J of the *Materials Quality Assurance Procedures Manual*.

The adhesive system was tested at 40 degrees Fahrenheit at Lawrence Technological University's Center for Innovative Materials Research (CIMR) in Southfield, Michigan. CIMR granted MDOT access to their large environmental chamber for this test.

Based on results of the product evaluation and testing, Red Head A7+ Cold Weather Epoxy Anchoring System meets the requirements of MDOT's Qualified Product List (QPL).

MDOT's QPL will be updated soon. Meanwhile, this letter is verification of MDOT's approval of the subject product until the QPL has been updated.

If you have any questions, please contact me at 517-636-5709 or KulkarniS@Michigan.gov.

Sincerely,

Sudhakar Kulkarni, P.E.  
Structural Engineer  
Structure Construction Section

cc: P. Jansson  
S. Kahl  
D. Warren