COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3599-13

Product Evaluation Coordinator
Colorado Department of Transportation
4670 North Holly Street, Unit A
Denver, Colorado 80216

Material code: 712.10.02.00

FOR INTERNAL CDOT USE

Material code description full name: Adhesive, Concrete Anchoring Agent

PART 1

Product name: Epcon S7

Product category: Adhesive\Anchoring, Lateral\Epoxy

Product representative (name & address):
Attn: Dave Jablonski
ITW Commercial Construction North America - Red Head
700 High Grove Boulevard
Glendale Heights, IL 60139
Phone: (800) 899-7890 FAX: (630) 893-1291

Manufacturer (name & address):
Attn: Dave Jablonski
ITW Commercial Construction North America - Red Head
700 High Grove Boulevard
Glendale Heights, IL 60139
Phone: (800) 899-7890 FAX: (630) 893-1291

Web-site address: www.itwredhead.com

Web-site address: www.itwredhead.com

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)

Epcon S7 Adhesive Anchoring System is a two-component, high strength, fast cure, structural adhesive, used with threaded rod and rebar installed in normal weight concrete. The system can be used to resist static, wind and seismic tension, and shear loads when installed in cracked and un-cracked normal weight concrete. Epcon S7 is a two part hybrid epoxy packaged in a dual chamber cartridge available in 28oz (side by side) and 10oz (coaxial) sizes. The components are dispensed through a static mixing nozzle.

Bond Strength @ 2 day cure: for Class C it is 1,482 psi; for Class B it is 1,161 psi; for Class A it is 1,092 psi
Bond Strength @ 14 day cure: for Class C it is 1,638 psi; for Class B it is 1,580 psi; for Class A it is 1,532 psi

Restrictions, (installation and/or use):

Base material temperature at installation must be between 14°F to 110°F.

Use of the product, (be specific to CDOT highway activities only):

Bonding threaded rod or rebar into drilled holes in concrete base materials.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):

- Very wide installation temperature range of 14° to 110° Fahrenheit.
- Can be installed in dry holes, saturated holes, water filled holes or submerged holes.
- Fast curing times dependant on installation temperature.
- Compliance with "Green Building Codes" ICC-ES VAR-1033

Specifications, (listing those applicable is required) **& Certificate of Compliance** (required to certify compliance with listed specifications):

- ☐ CDOT :
- ☒ ASTM : C 881 (Type I, II, IV, and V, Grade 3, Class A, B, and C ,with the exception of gel time class C only)
- ☐ AASHTO :
- ☐ FHWA :
- ☐ other :

Product testing, (from national/independent laboratories or universities) **& Certified Test Report** (CTR required to validate all claims):

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☒ other : ICC-ES Acceptance Criteria AC308 - Evaluation Report ESR-2308 (May 1, 2012)
- ☒ other : Nelson Testing Laboratories (July 17, 2012)

State DOT Approvals, (current documentation required):

New Product

Sample submitted: ☐ yes ☐ no ☒ n/a | Materials Safety Data Sheets (MSDS): ☒ yes ☐ no ☐ n/a

Notes/Additional Comments

Testing Sample available upon request.
Product must be installed in accordance with the manufacturers instructions.
ITW Red Head has many distributors located in the state of Colorado making the product readily available. Contact customer service at 800-899-7890 for the closest distributor. As a new product there are not any State DOT Approvals yet.