COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2458-11

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:	Product category:
Epcon G5	Adhesive\Anchoring, Lateral\Epoxy
Product representative (name & address): Attn: Mark Timmerman ITW Red Head 2171 Executive Drive Suite 100 Addison, IL 60101 Phone: (800) 899-7890 FAX: (630) 495-6204	Manufacturer (name & address): Attn: Mark Timmerman ITW Red Head 2171 Executive Drive Suite 100 Addison, IL 60101 Phone: (800) 899-7890 FAX: (630) 495-6204
Web-site address: www.itw-redhead.com	Web-site address: www.itw-redhead.com

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

Epcon G5 as an adhesive anchoring system is a two-component, extended working time, structural epoxy adhesive, used with stud-type threaded rods installed in normal-weight concrete. Epcon G5 is used to resist static, wind, or earthquake (Seismic Design Categories A thru F) tension and shear loads when installed in cracked and uncracked normal-weight concrete having a specified compressive strength of 2,500 psi to 8,500 psi. Standard 4 hour fire resistance performance, NSF approved, odorless and no VOCs, works in dry, damp, saturated, and wet /water filled holes in a no sag formula. With the concrete temperature at 70°F the working time is 15 minutes and the cure time is 24 hours, with the concrete temperature at 90°F the working time is 9 minutes and the cure time is 24 hours, and with the concrete temperature at 110°F the working time is 9 minutes and the cure time is 24 hours.

Restrictions, (installation and/or use):

Epcon G5 is harder to pump in cold weather. Cartridge needs to be warmed to dispense the non-sag adhesive thru the static mixer. Use with pneumatic tool.

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

Epcon G5 can be used for anchoring threaded rods, dowels, pins, and rebar into solid concrete and grout for guardrails, bridges, lateral connection, spillways

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

Has an extended working time . Epcon G5 can be used to set anchors in oversize, core drilled holes, seismic resistance, VOCs free, and performs excellent in water holes. Also, an economical solution for a post-installed anchoring system.

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

- ☐ CDOT :
- ☒ ASTM : C 881, Type IV, Grade 3
- ☐ AASHTO :
- ☐ FHWA :
- ☒ other : ICC-ES Evaluation Service, Inc.(ERS-1137) [http://www.icc-es.org/reports/pdf_files/ICC-ES/ESR-1137]

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

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☒ other : ICC-ES ESR-1137 (March 1, 2011)
- ☒ other : Universal Construction Testing (March 4, 2011)

State DOT Approvals, (current documentation required):

Florida, Georgia, Indiana, New York, Tennessee, Texas

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

Notes/Additional Comments

Epcon G5 product samples will be provided to CDOT at no charge upon request.