COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3408-11

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: T308+

Product category: Adhesive\Anchoring, Lateral\Epoxy

Product representative (name & address):
Attn: Brian H. Schutz
Powers Fasteners, Inc.
2 Powers Lane
Brewster, NY 10509
Phone: (914) 235-6300 FAX: (914) 576-6483

Manufacturer (name & address):
Attn: Brian H. Schutz
Powers Fasteners, Inc.
2 Powers Lane
Brewster, NY 10509
Phone: (914) 235-6300 FAX: (914) 576-6483

Web-site address: www.powers.com

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Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
The T308+ is a two-component, 1:1 ratio epoxy adhesive that is low-odor, v.o.c. compliant and is a smooth paste formulation. Independently tested to meet ASTM C 881 Types I, II, IV, & V, Grade 3, Class C (with the exception of gel time). Tested in accordance with AC308, ICC-ES listed for use in uncracked concrete per ICC-ES ESR-3066. Compliant with NSF/ANSI Standard 61 for drinking water system components. Ambient and base material temperatures must be a minimum of 50°F. Gel time at 70°F is 10 minutes, cure time is 24 hours. Compressive yield per ASTM D 695 of 10,900 psi at 7 days, bond strength per ASTM C 882 of 2,230 at 2 days and 2,760 at 14 days. T308+ has a two year shelf life when stored per manufacturer recommendations. The cartridge design allows for multiple uses using extra mixing nozzles. Cartridges are currently available in 8.5, 14, 21, and 51 ounces. The 8.5 ounce "Quick-Shot" cartridge can be used in a standard caulking gun. The mixing nozzles proportion the adhesive and provide a simple delivery method to drilled holes.

Restrictions, (installation and/or use):
Minimum base temperature of 50° 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):
Cost effective epoxy for bonding either threaded rod or rebar. Available in 14 fl oz, 21.5 fl oz, and large 51 fl. oz. side by side cartridge. ICC-ES listed and NSF/ANSI 61 compliant. Partially used cartridges may be used at a later date if stored properly and within shelf life. Two year shelf life.

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

- ☐ CDOT :
- ☒ ASTM : C881, Type I, II, IV, & V, Grade 3, Class C
- ☐ 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 ESR-3066 (March 1, 2010)
- ☒ other : Sor Testing Laboratories, Inc. (7-23-2009)

State DOT Approvals, (current documentation required):
AZ, KS, NE, NV

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

Notes/Additional Comments