COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3242-10

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

Material code: 708.08.01.00

FOR INTERNAL CDOT USE

Material code description full name: Paint, Structural Concrete Coating

PART 1

Product name: NASA GLC

Product category: Paint/Coating\Concrete Corrosion Inhibitor\NA

Product representative (name & address):
Attn: John Lee
Surtreat Holding LLC
741 Eagle St.
Aurora, CO 80012
Phone: (720) 290-3559 FAX:

Manufacturer (name & address):
Attn:
Surtreat Holding LLC
437 Grant St. / 1210 Frick Building
Pittsburgh, PA 15219
Phone: (412) 281-1202 FAX: (412) 281-1282

Web-site address: www.surtreat.com

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Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
NASA GLC (Galvanic Liquid Coating) is a sacrificial coating developed by the National Aeronautics and Space Administration. The GLC system is comprised of two main components: (1) an inorganic silicate vehicle / coating applied to the surface which contains zinc, aluminum, magnesium and indium metal powders and (2) titanium mesh strips that are connected to the rebar to conduct cathodic current produced by the coating. Protects imbedded reinforcing steel by acting as a sacrificial anode. Application procedure includes prior treatment of concrete surfaces with Surtreat TPS XII and TPS II followed by GLC.

Restrictions, (installation and/or use):

Use of the product, (be specific to CDOT highway activities only):
Inhibit further rebar corrosion on concrete infrastructure by acting as a sacrificial anode.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Surtreat NASA GLC will extend the life of reinforced concrete infrastructure and significantly defer replacement due to structural deficiencies. Annual monitoring of corrosion current is part of the turnkey preventive maintenance process using the Surtreat NASA system.

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

- ☐ CDOT :
- ☐ ASTM :
- ☐ AASHTO :
- ☐ FHWA :
- ☐ other :

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

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☒ other : NACE International, Paper No. 09503 (2009)
- ☒ other : Elzly Technology Corporation (August 2007)

State DOT Approvals, (current documentation required):

Sample submitted: ☐ yes ☒ no ☐ n/a

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

Notes/Additional Comments
Surtreat will supply Surtreat NASA GLC and technical support for a demonstration project with corrosion monitoring.