COLORADO DEPARTMENT OF TRANSPORTATION

# PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3240-10

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: TPS XII

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.)

TPS XII is an organic, surface applied corrosion inhibitor for use on hardened concrete. It will protect reinforcing steel in concrete from corrosion by penetrating the concrete surface and migrating, in liquid and vapor form, to the reinforcing steel. TPS XII is an amine that inhibits corrosion at both the anodic and cathodic sites. Multi-functional performance ensures better protection against corrosion. This provides reinforcing steel protection from chloride and carbonation induced corrosion. Performance is measured by: before and after corrosion rate measurements.

TPS XII can be used alone or in conjunction with TPS II.

**Restrictions,** (installation and/or use):

Minimum ambient and substrate temperature of 35°F. Temperatures must stay above 32°F for the first 12 hours.

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

Inhibit rebar corrosion on new bridge decks and support structures and other reinforced concrete structures being built by CDOT.

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

TPS XII will extend the life of reinforced concrete infrastructure and reduce maintenance cost by inhibiting rebar corrosion rate and avoiding the occurrence of concrete delamination and spalling.

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

- ☐ CDOT :
- ☒ ASTM : G-109, C-876
- ☐ AASHTO :
- ☐ FHWA :
- ☒ other : Galvapulse

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

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☒ other : Elzly Technology Corporation (August 2007)
- ☐ other :

**State DOT Approvals**, (current documentation required):

Sample submitted: ☐ yes ☒ no ☐ n/a

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

Notes/Additional Comments

The active ingredients in TPS XII has been in the previous formulation TPS V and Surtreat VCI.
Surtreat will supply TPS XII and technical support for a demonstration project with before and after testing.