COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2185-12

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

Material code: 601.09.01.00

FOR INTERNAL CDOT USE

Material code description full name: Concrete, Patching Material

PART 1

Product name: Five Star Structural Concrete

Product category: Concrete\Repair/Patching\Rapid Set, Horizontal

Product representative (name & address):
Attn: Ryan Taylor
Five Star Products Inc.
750 Commerce Drive
Fairfield, CT 06825
Phone: (203) 336-7900 FAX: (203) 336-7930

Manufacturer (name & address):
Attn: Ryan Taylor
Five Star Products
750 Commerce Drive
Fairfield, CT 06825
Phone: (203) 336-7900 FAX: (203) 336-7930

Web-site address: www.fivestarproducts.com

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Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
Five Star Structural Concrete is a high early strength, one component, low shrinkage permanent concrete repair material. Application thickness can range from 1/4 inch to 12 inches in a single pour. Typical compressive strength at 70°F is 3500 psi @ 4 hours, 5000 psi @ 1 day, 7000 psi @ 7 days, and 8000 psi @ 28 days. Bond Strength is 2000 psi @ 1 day and 2500 psi @ 7 days. Working Time at 70°F is 15 minutes.

Restrictions, (installation and/or use):
Temperature of surfaces must be between 35°F and 90°F at time of placement.

Use of the product, (be specific to CDOT highway activities only):
Construction joint repair, general repair of concrete structures and cold weather repairs.

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
High 3 hour strength, very low chloride ion permeability, high bond strength, short turn around times, can be coated in 8 to 24 hours, adjustable working time, course aggregate extension, excellent resistance to sulfates, thin or thick placement, one component for ease of use, cold weather installation.

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

- ☐ CDOT :
- ☒ ASTM : C 928 [C109, C882, C157, C531, C672, C1202]
- ☐ AASHTO :
- ☐ FHWA :
- ☐ other :

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

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☐ other :
- ☒ other : TEC Services (May 9, 2008)

State DOT Approvals, (current documentation required):
Mississippi, Virginia

Sample submitted: ☐ yes ☒ no ☐ n/a

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

Notes/Additional Comments