COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2712-15

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: STR Mortar

Product category: Concrete\Repair/Patching\Rapid Set, Vertical & Overhead

Product representative (name & address):
Attn: Andrew Beaty
US SPEC
112 South Santa Fe Drive
Denver, CO 80223
Phone: (303) 778-7227 FAX: (303) 722-8426
Web-site address: www.usspec.com

Manufacturer (name & address):
Attn: Andrew Beaty
US Mix Co.
112 South Santa Fe Drive
Denver, CO 80223
Phone: (303) 778-7227 FAX: (303) 722-8426
Web-site address: www.usmix.com

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

STR Mortar is a slow setting, pumpable, structural concrete repair mortar that exhibits excellent flexural properties, shear bond strength and compressive strength. STR Mortar is a blend of portland cement, selected aggregates and proprietary admixtures. STR Mortar is ideal for formed applications that require extended working time, high fluidity and added depth requirements. STR Mortar has an initial set of 45 minutes per ASTM C 266. It has a 3 hour compressive strength of 2500 psi per ASTM C 109. STR Mortar achieves a 7 day compressive strength of 6,700 psi and a 28 day compressive strength of 9,000 psi. STR Mortar achieves a bond strength of 2,100 psi at 1 day, 2,800 psi at 7 day and 3,900 psi at 28 days.

Restrictions, (installation and/or use):

Temperature of surfaces must be between 40°F and 90°F at time of placement.

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

Ideal for, but not limited to structural repairs of concrete columns and walls or other vertical and overhead formed concrete.

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

STR Mortar is highly flowable, has low shrinkage rates and displays excellent resistance to corrosion of the reinforcing steel. STR Mortar is also freeze/thaw resistant. US SPEC STR Mortar is manufactured in Denver, CO within strict quality standards.

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

- ☐ CDOT :
- ☒ ASTM : C 928 R2
- ☐ AASHTO :
- ☐ FHWA :
- ☐ other :

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

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☒ other : Concrete - Solutions (June 19, 2015)
- ☒ other : CTL Thompson Inc. (October 15, 2014)

State DOT Approvals, (current documentation required):

Arizona, Nebraska, Nevada, New Mexico, Oregon

Sample submitted: ☐ yes ☒ no ☐ n/a

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

Notes/Additional Comments