COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2717-15

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: H2

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

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

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.usspec.com

Web-site address: www.usmix.com

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

H2 is a two-component, polymer-modified, portland cement mortar. H2 is a fast setting patching material for surface repairs from feather edge to 1" neat and up to 4" extended, in both interior and exterior applications. H2 exhibits superior workability by maintaining a smooth, creamy consistency for easy troweling. H2 achieves compressive strengths of 2,000 psi in 24 hours, 3,000 psi in 7 days and 5,000 psi in 28 days. H2 has a flexural strength of 1,500 psi in 28 days. The bond strength of H2 is 1,400 psi in 1 day and 2,500 psi in 28 days. The rate of set per ASTM C 266 is 1:20 initial and 2:00 final.

H2 was re-formulated in early 2015. Be aware that the physical properties have changed.

Restrictions, (installation and/or use):

Maintain contact area between 40°F and 90°F prior to repair and during initial curing period.

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

Horizontal concrete surface repairs subject to freeze/thaw cycles, refinishing old concrete.

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

Freeze/thaw resistant with high bond and compressive strengths. Thermal expansion similar to concrete. Manufactured in Denver, CO under strict quality standards. Technical field support is available 24 hours a day, 7 days a week upon request.

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

- ☐ CDOT :
- ☒ ASTM : C928
- ☐ 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 (October 6, 2015)
- ☒ other : CTL Thompson (September 8, 2015 and September 21, 2015)

State DOT Approvals, (current documentation required):

Currently resubmitting to DOTs as formulation has changed.

Sample submitted: ☐ yes ☒ no ☐ n/a

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

Notes/Additional Comments