COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2266-11

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: Day-Chem Perma Patch	Product category: Concrete\Repair/Patching\Rapid Set, Horizontal
Product representative (name & address): Attn: Todd Fraker, Senior Regional Manager Dayton Superior 4950 Olive Street Commerce City, CO 80022 Phone: (303) 289-4808 FAX: (303) 289-3451	Manufacturer (name & address): Attn: John Hukey Dayton Superior 4226 Kansas Avenue Kansas City, KS 66106 Phone: (913) 279-0264 FAX: (913) 371-3330
Web-site address: www.DaytonSuperior.com	Web-site address: www.Dayton Superior.com

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

A rapid setting cement based, fiber reinforced, single component polymer modified, horizontal repair mortar. Designed for use when rapid strength gain and short repair downtime are required due to service/traffic needs. At 70°F the initial setting time is between 15 and 20 minutes. Reaches immediate compressive strength of 2000 psi in 1 hour. Attains 4400 psi in 24 hours. Can be applied in ambient temperatures down to 10°F provided the manufacturer's instructions are followed. Because it is silica fume modified, it exhibits strong resistance to chloride and salt absorption. Addition of fibers enhances the product's flexural strength, which is important for bridge decks subject to traffic vibration.

Repair area should be saturated surface dry prior to installation. Approved curing compound is recommended.

Restrictions, (installation and/or use):

Minimum depth of repair is ½". Repaired areas should be protected from excessive heat above 90°F and cold below 40°F.

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

Rapid repair of bridge decks and concrete right-of-way where rapid return to service is required.

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

A cost effective, locally available, rapid strength gain, single component, high performance repair mortar. Low permeability reduces CL and MG penetration. Addition of silica fume imparts superior freeze-thaw resistance.

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

- ☐ CDOT :
- ☒ ASTM : C-928 (R3)
- ☐ 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 : Nelson Testing Laboratories (October 27, 2010)

State DOT Approvals, (current documentation required):

GA, IA, IL, KY, KS, MA, MD, TN, VT

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

Notes/Additional Comments

This product has been on the CDOT APL for 10+ years with no known failures.