COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3772-14

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

Material code: 519.01.00.00

FOR INTERNAL CDOT USE

Material code description full name: Overlay, Thin Bonded

PART 1

Product name: Pro-Poxy Type III DOT

Product category: Bridge Structures\Thin Bonded Overlay\Epoxy

Product representative (name & address):
Attn: David Minor
Dayton Superior
5415 Northern Lights Drive
Fort Collins, CO 80528
Phone: (970) 286-9229 FAX:

Manufacturer (name & address):
Attn: David Minor
Dayton Superior
1125 Byers Road
Miamisburg, OH 45342
Phone: (937) 866-0711 FAX:

Web-site address: www.daytonsuperior.com/dot3

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

UNITEX's Pro-Poxy Type III DOT is a solvent-free, moisture insensitive, 100% solids, low modulus, low viscosity, high early strength, two component bonding agent. It meets ASTM C-881 Type III, Grade 1, Classes B & C. Excellent for use as a binder for pavement skid-resistant overlays for bridge preservation or high friction surface treatments. Low Viscosity of Material allows Pro-Poxy Type III DOT to penetrate into the slab improving the adhesion and helps preserve the bridge deck becoming a water and vapor barrier keeping out moisture and other contaminants like de-icing salts. Pro-Poxy Type III DOT is an epoxy-urethane system mixed at a 1:1 ratio by volume.
Gel Time @ 73°F is 15 minutes. Curing time is 2-4 hours depending on air and surface temperatures. Final Cure is 7 days.
Viscosity: 18 poises per ASTM D 2393, Brookfield RVT Spindle No. 3 at 20 rpm.
Compressive Strength: 1,000 psi @ 3 hours. Over 5000 psi reached in 24 hours per ASTM C 579 & C 109 modified.
Tensile Strength (neat): 2,000 to 4,000 psi @ 7 days per ASTM D 638
Shore D Hardness: 65 - 75 per ASTM D 2240

Restrictions, (installation and/or use):

Proper surface preparation required. Surface, air and material temperature must be a minimum 55°F.

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

Thin Bonded Overlay for Bridge Deck Preservation and High Friction Surface Treatments

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

Product is very easy to mix and apply. Fast curing time reduces lane closures. Material is 100% solids and is safer to use than methacrylate or HMWM type materials. Material is widely used across the Rocky Mountain Region and has great durability in areas exposed to frequent snow removal. Unitex has a certified technical representative on all projects to ensure proper mixing and application. Material is stocked in a Dayton Superior Warehouse in Denver, CO and is readily available in rush situations.

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

- [x] CDOT : Standard Specifications, Section 519
- [ ] ASTM :
- [ ] AASHTO :
- [ ] FHWA :
- [ ] other :

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

- [ ] NTPEP-AASHTO :
- [ ] FHWA :
- [x] other : TEC Services (12-14-2010) (3-09-2011) (5-16-2013)
- [x] other : SOR Testing Laboratories (7-18-2011), PSI (5-10-2013)

State DOT Approvals, (current documentation required):

Kansas, Louisiana, Michigan, Nevada, New Mexico, Oklahoma, Oregon, Wisconsin

Sample submitted: [ ] yes [x] no [ ] n/a | Materials Safety Data Sheets (MSDS): [x] yes [ ] no [ ] n/a

Notes/Additional Comments

Samples Available Upon Request