COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3238-10

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: MARK-154

Product category: Bridge Structures\Thin Bonded Overlay\Epoxy

Product representative (name & address):
Attn: Daniel Patacca
POLY-CARB, Inc.
33095 Bainbridge Road
Cleveland, OH 44139
Phone: (440) 248-1223 FAX: (440) 248-1513

Manufacturer (name & address):
Attn: Hemant Naik
POLY-CARB, Inc.
33095 Bainbridge Road
Cleveland, OH 44139
Phone: (440) 248-1223 FAX: (440) 248-1513

Web-site address: www.poly-carb.com

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Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
MARK-154 system is a thin polymer overlay system. MARK-154 system consists of a 100% solids, two-part liquid polymer system to be mixed on the job site and a blend of specially selected aggregate to be broadcast on the spread liquid. It is an overlay for over the entire deck at a minimum thickness of 1/4" - 3/8". Initial set @ 75°F +/- 2°F is 4 hours and Final cure @ 75°F +/- 2°F is 48 hours - 7 days. Pull-off strength @ 24 hours 500 psi. Compressive strength @ 8 hours 8,500 psi and @ 48 hours 10,500 psi. Tensile strength 2,500 psi.

Restrictions, (installation and/or use):
Application temperature of 40°F and above and expected to rise to 50°F or above.

Use of the product, (be specific to CDOT highway activities only):
Bridge decks, weather-exposed concrete structures requiring flexibility to accommodate minor movement under the overlay from freeze-thaw, vibration, etc

Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
MARK-154 will enhance the safety and prolong the life of CDOT bridge decks and other structures. The MARK-154 system provides waterproofing, protection from environmental effects and skid resistance to concrete and steel bridge decks prone to icing and corrosion.

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

- [x] CDOT : Standard Specifications 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 :
- [ ] other :
- [x] other : PSI (June 20, 2008) (February 15, 2010)

State DOT Approvals, (current documentation required):
Illinois, Missouri, New Mexico

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

Notes/Additional Comments
Samples are available upon request.
MARK-154 is applied through a specially designed meter mix equipment to ensure quality and productivity.
MARK-154 thin polymer overlay is an excellent alternate for concrete and latex modified overlays, as well as other thick and thin polymer overlays.