COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2915-10

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

Material code: 711.02.01.00

FOR INTERNAL CDOT USE

Material code description full name: Concrete, Admixture

PART 1

Product name: Tetraguard® AS20

Product category: Concrete\Admixture\Specific Performance

Product representative (name & address):
Attn: Mark Piechuta
BASF Corporation
23700 Chagrin Blvd.
Cleveland, OH 44122-5554
Phone: (216) 839-7072 FAX: (216) 839-8821

Manufacturer (name & address):
Attn: Mark Piechuta
BASF Corporation
23700 Chagrin Blvd.
Cleveland, OH 44122-5554
Phone: (216) 839-7072 FAX: (216) 839-8821

Web-site address: www.masterbuilders.com

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

Tetraguard AS20 shrinkage reducing admixture is a chemical admixture developed specifically to reduce drying shrinkage of concrete and mortar, and the potential for subsequent cracking. Tetraguard AS20 admixture functions by reducing capillary tension of pore water, a primary cause of drying shrinkage. Tetraguard AS20 admixture meets ASTM C 494/C 494M requirements for Type S, Specific Performance, admixtures.

Restrictions, (installation and/or use):

none known

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

Shrinkage-reducing admixture for concrete.

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

* Reduces drying shrinkage cracking and micro-cracking thereby improving aesthetics, watertightness and durability
* Reduces compressive creep under drying conditions that minimizes prestress loss
* Minimizes curling

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

- [x] CDOT : Standard Specifications 711.03
- [x] ASTM : C 494 Type S, Specific Performance
- [ ] 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 (October 11, 2010)
- [ ] other :

State DOT Approvals, (current documentation required):

Sample submitted: [ ] yes [x] no [ ] n/a

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

Notes/Additional Comments

A sample can be provided upon request at no cost. Technical data sheets outline specific dosage information.
APPROVED BY 6 OTHER STATE DOT'S, INCLUDING CALTRANS, NM DOT, OR DOT
Local Colorado BASF Sales representative is Brandon Cook; cell phone # (303) 704-3849