COLORADO DEPARTMENT OF TRANSPORTATION

# PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 2919-14

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: FR-1 (Item #95910 or #95913)

Product category: Concrete\Admixture\Retarding || Water-Reducing & Retarding

Product representative (name & address):
Attn: Jane Ojeda
Fritz-Pak Corporation
4821 Eastover Circle
Mesquite, TX 75149
Phone: (214) 221-9494 FAX: (214) 349-3182

Web-site address: www.fritzpak.com

Manufacturer (name & address):
Attn: Jane Ojeda
Fritz-Pak Corporation
4821 Eastover Circle
Mesquite, TX 75149
Phone: (214) 221-9494 FAX: (214) 349-3182

Web-site address: www.fritzpak.com

**Description of the product:** (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
FR-1 is a concrete admixture for water reduction and set retardation. It is in powdered form, packaged in pre-measured water soluble bags which are added to fresh concrete in the ready mix truck. Mixing requires only 5 to 7 minutes for complete dispersal throughout the load. Recommended dosage is 1.5 to 2.0 oz per 100 pounds of cementitious materials for 5-7% water reduction.

Packaging is in 1-lb water soluble bags (Item #95910) or in 50-lb paper bags (Item #95913).

**Restrictions,** (installation and/or use):
Product should be handled so as not to break inner water-soluble bags before use. Product should not be inhaled if inner bag is broken.

**Use of the product**, (be specific to CDOT highway activities only):
Produces higher compressive and flexural strength, more workable concrete and provides extended set times. Decreases segregation.

**Benefits to CDOT**, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):
Because it is a powder, it is less costly to ship and to store than liquid products. It does not freeze, and if kept in a dry place will have a shelf life of up to 3 years. It can be added at the plant or the job site as it is easily carried on trucks. If added at the job site, retardation time is not lost during transportation from the plant.

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

- [x] CDOT : Standard Specifications, Section 711, 711.03 Chemical Admixtures
- [x] ASTM : C 494 Type B & Type D
- [x] AASHTO : M 194 Type B & Type D
- [ ] FHWA :
- [x] other : CRD C-87

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

- [ ] NTPEP-AASHTO :
- [ ] FHWA :
- [x] other : TEC Services (February 6, 2012)
- [ ] other :

**State DOT Approvals**, (current documentation required):
AZ, AR, GA, ID, IA, KS, KY, MS, MO, NM, OR, TN, TX, WV, WI,

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

Notes/Additional Comments