COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3359-11

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: Chryso®Fluid Optima 306	Product category: Concrete\Admixture\Water-Reducing, High Range
Product representative (name & address): Attn: Steve Parker Chryso, Inc. 1611 Hwy 276 Rockwall TX 75032 Phone: (972) 772-6010 FAX: (972) 772-0980	Manufacturer (name & address): Attn: Brian Breitzman Chryso, Inc. 1611 Hwy 276 Rockwall TX 75032 Phone: (972) 772-6010 FAX: (972) 772-0980
Web-site address: www.chryso.com	Web-site address: www.chryso.com

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

Chryso®Fluid Optima 306 is a new generation high range water reducing admixture based on proprietary polymers and utilized VAS technology to extend slump life without reducing early strength. Chryso®Fluid Optima 306 is formulated specifically to retain workability in extreme conditions while allowing for very high early strengths. Chryso®Fluid Optima 306 exclusive formulation allows for extreme easiness of use and robustness. Chryso®Fluid Optima 306 is an excellent choice for producing SCC concrete where workability retention and ease of placement is important while maintaining excellent high early strengths. Chryso®Fluid Optima 306 allows concrete to be produced with very low water/cement ratios and improves finish, placement, workability, pumpability and overall concrete quality. Proprietary molecule reduces concrete viscosity (stickiness) allowing for easier placement and labor savings.

Restrictions, (installation and/or use):

No known restrictions but field trials should be conducted prior to use on a project to confirm dosage rates and performance requirements.

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

Chryso®Fluid Optima 306 is recommended for all concrete mixes where significant water reduction, improved cementitious performance, extended slump.

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

Allows concrete to be produced with very low water/cement ratios and improves finish, placement, workability, pumpability and overall concrete quality. Allows for extended slump life allowing for longer haul times while maintaining high early strength performance. Proprietary molecule reduces concrete viscosity (stickiness) allowing for easier placement and labor savings.

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

- ☐ CDOT :
- ☒ ASTM : C 494, Type F
- ☒ AASHTO : M 194, Type F
- ☐ FHWA :
- ☐ other :

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

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☒ other : TEC Services (May 27, 2009)
- ☐ other :

State DOT Approvals, (current documentation required):

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

Notes/Additional Comments

Sample will be submitted upon request.