COLORADO DEPARTMENT OF TRANSPORTATION

PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3770-14

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: Chryso® Fluid Optima 258 EMx

Product category: Concrete\Admixture\Water-Reducing||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: Gabor Acs
Chryso, Inc.
1611 Hwy 276
Rockwall TX 75032
Phone: (972) 772-6010 FAX: (972) 772-0980

Web-site address: chrysoinc.com

Web-site address: chrysoinc.com

Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)
Chryso® Fluid Optima 258 EMx is a new generation high range water reducing admixture based on proprietary polymers. Chryso® Fluid Optima 258 EMx is formulated specifically to retain workability in extreme conditions while allowing for very high early strengths. Chryso® Fluid Optima 258 EMx exclusive formulation allows for extreme easiness of use and robustness. Chryso® Fluid Optima 258 EMx 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 258 EMx 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.

Use of the product, (be specific to CDOT highway activities only):
CHRYSO®Fluid Optima 258 EMx is recommended for all concrete mixes where significant water reduction and enhanced slump retention are desirable.

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 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 A & F
- ☒ AASHTO : M 194 Type A & F
- ☐ FHWA :
- ☐ other :

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

- ☐ NTPEP-AASHTO :
- ☐ FHWA :
- ☒ other : American Engineering Testing, Inc. [Type A & Type F] (January 28, 2014)
- ☐ other :

State DOT Approvals, (current documentation required):
New product, first round of approvals

Sample submitted: ☐ yes ☒ no ☐ n/a

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

Notes/Additional Comments
Sample will be submitted upon request.