COLORADO DEPARTMENT OF TRANSPORTATION

# PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No. 3055-11

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: | Product category: |
|---|---|
| Chryso® NutralSet® | Concrete\Admixture\Water-Reducing & Retarding |
| Product representative (name & address):<br>Attn: Steve Parker<br>Chryso, Inc.<br>1611 Hwy 276<br>Rockwall TX 75032<br>Phone: (972) 772-6010 FAX: (972) 772-0980 | Manufacturer (name & address):<br>Attn: Brian Breitzman<br>Chryso, Inc.<br>1611 Hwy 276<br>Rockwall TX 75032<br>Phone: (972) 772-6010 FAX: (972) 772-0980 |
| Web-site address:<br>www.chryso.com | Web-site address:<br>www.chryso.com |

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

Chryso NutralSet is a water-reducing and retarding concrete admixture meeting C-494 Type D. Chryso NutralSet is a multi-functioning product which provides excellent set control in warm to hot conditions and can be easily controlled as temperatures rise. Chryso NutralSet can also be used as a slump extender in very long haul situations to help maintain slump and temperature. In precast concrete Chryso NutralSet can be used in conjunction with a HRWR to help increase early strength by helping control the early temperature rise during heat or steam cure operations. Chryso NutralSet will provide set retardation to the concrete but does not have a negative affect on early concrete strength as sometimes seen with typical set retarding admixtures.

Note: Formerly known as RENU

**Restrictions,** (installation and/or use):

No known restrictions, field trials should be conducted prior to use on a project to confirm dosage rates and set control.

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

Used for set time and heat of hydration control in all types of Ready Mixed Concrete.

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

1. Control the set time and allow for extended haul times by controlling the heat of hydration
2. Control temperature gain during transport from heat of hydration in warm to hot weather
3. Increase strength performance at all ages

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

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

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

- ☒ NTPEP-AASHTO : CADD-2010-01-068
- ☐ FHWA :
- ☒ other : American Engineering Testing, Inc. (April 20, 2009)
- ☐ other :

**State DOT Approvals**, (current documentation required):

FL, GA, IL, TX

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

Notes/Additional Comments

Sample will be submitted upon request.