## COLORADO DEPARTMENT OF TRANSPORTATION

## PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY

APL Reference No.

4910-19

Product Evaluation Coordinator	Material code:
Colorado Department of Transportation	711.02.01.00
4670 North Holly Street, Unit A	Material code description full name:
Denver, Colorado 80216	Concrete, Admixture
PART 1	
Product name:	Product category:
Creteshield UltraMix	Concrete\Admixture\Specific Performance
Product Representative (name & address): Attn: Jordan Beckett	Manufacturer (name & address): Attn: Jordan Beckett
Obex Co.	Obex Co.
680 G Street Suite C	680 G Street Suite C
Jacksonville, OR 97530	Jacksonville, OR 97530
Phone: (844) 265-3535 E-mail: Jordan@obexco.com	Phone: (844) 265-3535 E-mail: Jordan@obexco.com
Web-site address: www.obexco.com	Web-site address: www.obexco.com
Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.)	
Creteshield UltraMix is an additive for concrete mixes that has been demonstrated in ASTM C494 testing to enhance	
concrete properties as noted by the following: (1) Concrete Compressive Strength, 1 day +33%; 28 day +11%; 180 day +6% (2) Modulus of Rupture, 3 day -9%, 7 day +3%, 28 day +13%; 3. Modified Shrinkage, +5%.	
In addition, other tests have shown improvements in, 1. ASR Expansion (ASTM C1567), 13% reduction, 2. Abrasion Resistance, 60% reduction, 3. Underwater	
Abrasion, 59% reduction, 4. Rate of Absorption of Water (ASTM C1585), 18% reduction.  Creteshield UltraMix can be used as topical additive (applied with sprayer up to 500SF/GL) to improve surface strength and finished properties while paving or	
finishing.	
Restrictions, (installation and/or use):	
Shipping and prior to installation: Cannot be frozen	
Use of the product, (be specific to CDOT highway activities only):	
Improved concrete for pavements, bridge infrastructure, foundations, top coatings, bridge decks, curbs, gutters, drainage features	
Benefits to CDOT, (how will your product enhance quality, improve safety, save money, be a better value then other manufacturer's products):	
Enhances Strength, Modulus of Rupture, thus better quality concrete.	
Decreases ASR; decreases abrasion due to surface traffic and due to water transmission of debris and abrasives. Decreases water absorption. For all, better concrete durability.	
Saves money with increased length of concrete life cycle.	
Improves safety by resisting traffic/vehicular surface wear and improving surface hardness; low VOCs	
Specifications: (listing those applicable is required)	
✓ CDOT : 601.05, 711.03	
✓ ASTM : C494 Type S	
✓ AASHTO: M194,	
FHWA :	
other :	
Certificate of Compliance (COC) provided Certificate	of Verification (COV) provided for select categories ONLY
Product Testing: (National/independent laboratories or universities with Repo	rt Date.) Certified Test Report (CTR) provided to validate all claims.
☐ NTPEP-AASHTO:	
□ FHWA :	
other : ASTM C494 Type S; June 11,2018; Intelligent Concrete, LLC (ASTM C1077 certified)	
other :	
other :	
State DOT Approvals, (current documentation required):	Expiration Date 4 Years / 07-22-2023
Sample submitted: 🗹 yes 🔲 no 🔲 n/a Safety Data Sh	eets (SDS): 🔽 yes 🔲 no 🔲 n/a
Alternate Product Category:	
Additional Comments:	
Sample being sent separately (Creteshield UltraMix packaged in 5 GL pail) from supplemental documents mailed package	