

Illinois Department of Transportation
Bureau of Materials and Physical Research
APPROVED LIST OF CONCRETE ADMIXTURES
March 2, 2012

This list supersedes the February 24, 2012 list.
Standard Specifications for Road and Bridge Construction, Section 1021 (Adopted January 1, 2012)

For information regarding new product submittal, click the "New Submittal" bookmark to the left.

APPROVED LIST: REFERENCE SECTION

(Page 1 of 4)

Applicable Specifications For Determining Admixture Dosage

Article 1020.05(b):

Admixtures. The use of admixtures to increase the workability or to accelerate the hardening of the concrete will be permitted when approved by the Engineer. Admixture dosages shall result in the mixture meeting the specified plastic and hardened properties. The Department will maintain an Approved List of Corrosion Inhibitors. Corrosion inhibitor dosage rates shall be according to Article 1020.05(b)(12). The Department will also maintain an Approved List of Concrete Admixtures, and an admixture technical representative shall be consulted when determining an admixture dosage from this list. The dosage shall be within the range indicated on the approved list unless the influence by other admixtures, jobsite conditions (such as a very short haul time), or other circumstances warrant a dosage outside the range. The Engineer shall be notified when a dosage is proposed outside the range. To determine an admixture dosage, air temperature, concrete temperature, cement source and quantity, finely divided mineral sources(s) and quantity, influence of other admixtures, haul time, placement conditions, and other factors as appropriate shall be considered. The Engineer may request the Contractor to have a batch of concrete mixed in the lab or field to verify the admixture dosage is correct. An admixture dosage or combination of admixture dosages shall not delay the initial set of concrete by more than one hour. When a retarding admixture is required or appropriate for a bridge deck or bridge deck overlay pour, the initial set time shall be delayed until the deflections due to the concrete dead load are no longer a concern for inducing cracks in the completed work. However, a retarding admixture shall not be used to further extend the pour time and justify the alteration of a bridge deck pour sequence.

When determining water in admixtures for water/cement ratio, the Contractor shall calculate 70 percent of the admixture dosage as water, except a value of 50 percent shall be used for a latex admixture used in bridge deck latex concrete overlays.

Article 1020.05(b)(10):

For Class PV, MS, and SI, a retarding admixture shall be added to the concrete mixture when the concrete temperature is 85 °F (30 °C) or higher. This requirement may be waived by the Engineer when fly ash compensated mixtures are used.

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Standard Specifications for Road and Bridge Construction, Section 1021 (Adopted January 1, 2012)

APPROVED LIST: REFERENCE SECTION

(Page 2 of 4)

MID-RANGE WATER REDUCING ADMIXTURES – FOR INFORMATION ONLY

The American Association of State Highway and Transportation Officials (AASHTO), American Society for Testing and Materials (ASTM), and the Department have no material specification for mid-range water reducing admixtures. However, according to the Department's "Portland Cement Concrete Level III Technician Course – Manual of Instructions for Design of Concrete Mixtures" (<http://www.dot.il.gov/materials/guidesmanuals.html>), a mid-range water reducing admixture is defined as a water reduction of 8 to 15 percent. The Department approved Type A and Type F admixtures listed below are capable of providing a minimum 8 percent water reduction for the dosage range provided by the manufacturer. The Type F admixtures are capable of a water reduction approaching 15 percent.

This list of mid-range water reducing admixtures and their dosage range was provided by the manufacturers to assist field personnel with an appropriate mid-range water reduction. **This list shall not be construed as an approved list, and the Department has no intentions to develop a material specification for mid-range water reducing admixtures.**

<u>Company Name</u>	<u>Producer / Supplier No.</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.) *</u>	<u>Approved As Type A and/or Type F</u>	<u>Material Code No.</u>
Axim Italcementi Group	4695-01	Catexol 2000 Ni (1)	456-978 (7-15)	A	43871
Axim Italcementi Group	4695-01	Catexol 800 N (1)	325-391 (5-6)	A	43821
Axim Italcementi Group	4695-01	Duraflux 33	195-456 (3-7)	A	43838
Axim Italcementi Group	4695-01	Catexol 3500 N	391-522 (6-8)	A	43845
Axim Italcementi Group	4695-01	Duraflux 66	260-456 (4-7)	A/F	43846
Axim Italcementi Group	4695-01	Hydrosense	325-782 (5-12)	A	43844
Axim Italcementi Group	4695-01	Allegro 122***	195-456 (3-7)	F	43815
Axim Italcementi Group	4695-01	Catexol 1000 SP-MN (1)	456-782 (7-12)	F	43735
Axim Italcementi Group	4695-01	Superflux 2000 PC***	97.8-293.4 (1.5-4.5)	F	43842
BASF Construction Chemicals	4179-04	PolyHeed 997	391-978 (6-15)	A	43755
BASF Construction Chemicals	4179-04	PolyHeed 1720***	325-652 (5-10)	A/F	43837
BASF Construction Chemicals	4179-04	Rheobuild 1000	586-783 (9-12)	F	43746
BASF Construction Chemicals	4179-04	Glenium 3400 NV***	130-260 (2-4)	F	43817
BASF Construction Chemicals	4179-04	Glenium 7700***	130-260 (2-4)	F	43894
BASF Construction Chemicals	4179-04	PolyHeed 900	391-978 (6-15)	A	43912
BASF Construction Chemicals	4179-04	PS 1583***	228.2-456.4 (3.5-7.0)	A/F	43915
CHRYSO, Inc.	6173-01	Chrysofluid Optima 203 (1)	325-652 (5-10)	A/F	43823
CHRYSO, Inc.	6173-01	Chryso Plast MR720 (1)	325-782 (5-12)	A	43896

NOTES: * 65.2 mL/100 kg = 1.0 oz/cwt (1) Consult with an admixture technical representative for potential retardation.
** Lignin which may entrain air and retard set.
*** Polycarboxylate

Illinois Department of Transportation
Bureau of Materials and Physical Research
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March 2, 2012

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Standard Specifications for Road and Bridge Construction, Section 1021 (Adopted January 1, 2012)

APPROVED LIST: REFERENCE SECTION

(Page 3 of 4)

MID-RANGE WATER REDUCING ADMIXTURES, Continued – FOR INFORMATION ONLY

<u>Company Name</u>	<u>Producer / Supplier No.</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.) *</u>	<u>Approved As Type A and/or Type F</u>	<u>Material Code No.</u>
CHRYSO, Inc.	6173-01	Chryso EnviroMix N (1)	325-782 (5-12)	A	43898
CHRYSO, Inc.	6173-01	Chryso EnviroMix 159	260-1304 (4-20)	A	43900
CHRYSO, Inc.	6173-01	Chryso Plast MR (1)	325-910 (5-14)	A	43897
CHRYSO, Inc.	6173-01	Chryso EnviroMix 380	260-910 (4-14)	A	43910
CHRYSO, Inc.	6173-01	Chryso Fluid Optima 256	195-652 (3-10)	A	43911
Euclid Chemical Company	614-01	Eucon MR (1)	456-652 (7-10)	A	43789
Euclid Chemical Company	614-01	Eucon MRX (1)	325-652 (5-7)	F	43875
Euclid Chemical Company	614-01	Plastol 341*** (1)	260.8-391.2 (4.0-6.0)	A/F	43891
Euclid Chemical Company	614-01	Eucon A+ (1)	391.2-521.6 (6.0-8.0)	A	43854
Euclid Chemical Company	614-01	Plastol 6420***	260.8-391.2 (4.0-6.0)	A/F	43914
General Resource Technology	5204-01	Polychem 1000** (1)	391-586 (6-9)	A	43760
General Resource Technology	5204-01	Polychem 3000***	260-391 (4-6)	F	43810
General Resource Technology	5204-01	Polychem SPC***	195-391 (3-6)	A/F	43830
General Resource Technology	5204-01	Genesis 112***	195-391 (3-6)	A/F	43873
W. R. Grace & Company	767-01	Daracem 55**	326-586 (5-9)	A	43708
W. R. Grace & Company	767-01	Daracem 65 (1)	326-586 (5-9)	A	43765
W. R. Grace & Company	767-01	MIRA 35	326-783 (5-12)	A	43874
W. R. Grace & Company	767-01	MIRA 62	260-783 (4-12)	A/F	43867
W. R. Grace & Company	767-01	MIRA 110	326-652 (5-10)	F	43870
W. R. Grace & Company	767-01	ADVA 140M***	652-586 (5-9)	A	43917
Premiere Concrete Admixtures	6546-01	OptiFlo MR	652-783 (7-12)	A	43885
Premiere Concrete Admixtures	6546-01	UltraFlo 2000	260-391 (4-6)	A	43887
Premiere Concrete Admixtures	6546-01	EcoFlo GREEN	260-391 (4-6)	A	43879
RussTech Admixtures, Inc.	3988-01	FinishEase-NC (1)	522-652 (8-10)	A	43797
Sika Corporation	2231-01	Sikament 686***	260-783 (4-12)	A/F	43827
Sika Corporation	2231-01	Viscocrete 2100***	195-391 (3-6)	A/F	43820
Sika Corporation	2231-01	Sikaplast 500	326-652 (5-10)	A	43840

NOTES: * 65.2 mL/100 kg = 1.0 oz/cwt (1) Consult with an admixture technical representative for potential retardation.
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Bureau of Materials and Physical Research
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March 2, 2012

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Standard Specifications for Road and Bridge Construction, Section 1021 (Adopted January 1, 2012)

APPROVED LIST: REFERENCE SECTION

(Page 4 of 4)

Admixture Company Contacts

Axim Italcementi Group
P.O. Box 234
8282 Middlebranch Road
Middlebranch, OH 44652
www.aximconcrete.com
Mr. Vince Maniscalco – 260-341-0177
Mr. Paul Piekarski – 414-840-6660
Mr. Peter Neuman – 715-579-8534
Mr. Dan Power – 260-241-5783

BASF Admixtures, Inc.
23700 Chagrin Boulevard
Cleveland, OH 44122
www.basf.com/usa
708-334-9554
Mr. Kevin Mahoney

Chryso, Inc.
P.O. Box 190
Rockwall, TX 75087
Mr. Brian Breitzman - 972-772-6010 x203
Mr. Eugene Perronne – 920-980-9428

Euclid Chemical Company
19218 Redwood Road
Cleveland, OH 44110
www.euclidchemical.com
Mr. Heath Morrall – 815-289-4605

General Resource Technology (GRT)
2978 Center Court
Eagan, MN 55121
www.grtinc.com
Mr. Steve Hawkins – 314-570-3885
Mr. Jim Frazier – 314-401-0417

W.R. Grace & Company
6000 West 51st Street
Chicago, IL 60638
www.graceconstruction.com
Mr. James Amundsen – 309-678-2250
Mr. Richard Conlin – 708-924-4771
Mr. James Kolakowski – 708-203-5210
Mr. Jeff Helgeson – 815-342-5760

Miracon Technologies, Inc.
401 S. Sherman Street
Suite 101
Richardson, TX 75081
972-387-3099
972-741-7080
Mr. Charles D. Welker

Ozinga
2222 South Lumber Street
Chicago, IL 60616
312-432-8100
Mr. Lee Crisp

Premiere Concrete Admixtures
508 Cedar Street
P.O. Box 277
Pioneer, OH 43554
800-503-3418
Mr. Douglas Wittler

RusTech, Inc.
11208 Decimal Drive
Louisville, KY 40299
502-267-7700
www.russtech.net
Ms. Kathi Showalter

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
www.sikausa.com
Mr. Paul Jordan – 717-821-3721
Mr. Jim Fiala – 815-388-5028
Mr. Pat O'Brien – 815-202-5601

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Bureau of Materials and Physical Research
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March 2, 2012

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APPROVED LIST: PRODUCTS SECTION

AIR ENTRAINING ADMIXTURES

<u>Company Name</u>	<u>Producer / Supplier Number</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.) **</u>	<u>Material Code No.</u>
Axim Italcementi Group	4695-01	Catexol AE 260	6.5-391.2 (0.1-6.0)	42134
Axim Italcementi Group	4695-01	Catexol AE 360	6.52-391.2 (0.1-6.0)	42163
Axim Italcementi Group	4695-01	Catexol V.R. Concentrate*	32.6-326.0 (0.5-5.0)	42183
BASF Construction Chemicals	4179-04	MB-AE 90	16.3-260.8 (0.25-4.0)	42140
BASF Construction Chemicals	4179-04	MBVR Concentrate*	16.3-260.8 (0.25-4.0)	42139
BASF Construction Chemicals	4179-04	MBVR Standard *	16.3-260.8 (0.25-4.0)	42110
BASF Construction Chemicals	4179-04	Micro Air	8.15-97.8 (0.125-1.5)	42129
BASF Construction Chemicals	4179-04	PAVE-AIR 90	16.3-260.8 (0.25-4.0)	42179
BASF Construction Chemicals	4179-04	Everair Plus	16.30-260.8 (0.25-4.0)	42182
CHRYSO, Inc.	6173-01	Chryso Air 260	13-196 (0.2-3)	42177
CHRYSO, Inc.	6173-01	Chryso Air TX	13-196 (0.2-3)	42178
Euclid Chemical Company	614-01	AEA 92	32.6-65.2 (0.5-1.0)	42153
Euclid Chemical Company	614-01	Air Mix 250	48.9-97.8 (0.75-1.5)	42155
Euclid Chemical Company	614-01	Airextra	16.3-97.8 (0.25-1.5)	42167
Euclid Chemical Company	614-01	Airex L	16.3-521.6 (0.25-8.0)	42168
General Resource Technology	5204-01	Polychem VR*	8.15-195 (0.125-3)	42150
General Resource Technology	5204-01	Polychem VRC*	8-195 (0.125-3)	42156
General Resource Technology	5204-01	Polychem AE	16-130 (0.25-2.0)	42151
General Resource Technology	5204-01	Polychem SA	13.0-130.4 (0.20-2.0)	42165
General Resource Technology	5204-01	Polychem SA-50	32.6-195.6 (0.50-3.0)	42181

NOTES: * Vinsol Resin
** 65.2 mL/100 kg = 1.0 oz/cwt

Illinois Department of Transportation
Bureau of Materials and Physical Research
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AIR ENTRAINING ADMIXTURES, Continued

W. R. Grace & Company	767-01	Darex AEA EH	32.6-326.0 (0.5-5.0)	42159
W. R. Grace & Company	767-01	Darex II AEA	32.6-326.0 (0.5-5.0)	42138
W. R. Grace & Company	767-01	Daravair AT60	16.3-195.6 (0.25-3.0)	42161
W. R. Grace & Company	767-01	Daravair 1400	32.6-195.6 (0.5-3.0)	42147
W. R. Grace & Company	767-01	Daravair 1000	32.6-195.6 (0.5-3.0)	42141
W. R. Grace & Company	767-01	Terapave AEA	16.3-195.6 (0.25-3.0)	42169
Premiere Concrete Admixtures	6546-01	ConAir	13.0-195.6 (0.2-3.0)	42172
Premiere Concrete Admixtures	6546-01	ConAir 260	13.0-195.6 (0.2-3.0)	42173
RussTech Admixtures, Inc.	3988-01	RSA-10	32.6-130 (0.5-2)	42144
RussTech Admixtures, Inc.	3988-01	RVR-15 *	32.6-130 (0.5-2)	42130
Sika Corporation	2231-01	Sika AEA-15	16.3-65.2 (0.25-1.0)	42142
Sika Corporation	2231-01	Sika Air	19.6-195.6 (0.3-3.0)	42157
Sika Corporation	2231-01	Sika AEA-14	19.6-195.6 (0.3-3.0)	42164
Sika Corporation	2231-01	Sika Multi Air 25	32.6-97.8 (0.5-1.5)	42180
Sika Corporation	2231-01	Sika Multi Air	10-195 (0.15-3)	42170

NOTES: * Vinsol Resin
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Illinois Department of Transportation
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March 2, 2012

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TYPE A, WATER REDUCING ADMIXTURES

<u>Company Name</u>	<u>Producer/ Supplier No.</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.) *</u>	<u>Material Code No.</u>
Axim Italcementi Group	4695-01	Catexol 800 N	130.4-391.2 (2.0-6.0)	43821
Axim Italcementi Group	4695-01	Duraflux 33	65.2-326.0 (1.0-5.0)	43838
Axim Italcementi Group	4695-01	Catexol 3500 N	195.6-1304.0 (3.0-20.0)	43845
Axim Italcementi Group	4695-01	Duraflux 66	65.2-326.0 (1.0-5.0)	43846
Axim Italcementi Group	4695-01	Hydrosense	130.4-782.4 (2.0-12.0)	43844
Axim Italcementi Group	4695-01	Catexol 2000 Ni	195.6-782.4 (3.0-12.0)	43871
BASF Construction Chemicals	4179-04	Pozzolith 80 **	260-391 (4-6)	43711
BASF Construction Chemicals	4179-04	Masterpave N **	130-195 (2-3)	43807
BASF Construction Chemicals	4179-04	PolyHeed 997	195-391 (3-6)	43755
BASF Construction Chemicals	4179-04	Pozzolith 220 N	130-195 (2-3)	43713
BASF Construction Chemicals	4179-04	PS 1466	130-195 (2-3)	43828
BASF Construction Chemicals	4179-04	Glenium 7500	130-195 (2-3)	43832
BASF Construction Chemicals	4179-04	PolyHeed 1720	195-326 (3-5)	43837
BASF Construction Chemicals	4179-04	Masterpave +**	195-456 (3-7)	43909
BASF Construction Chemicals	4179-04	PolyHeed 900	195-391 (3-6)	43912
BASF Construction Chemicals	4179-04	PS 1583	195.6-326.0 (3.0-5.0)	43915
BASF Construction Chemicals	4179-04	Pozzolith 322 N	195-391 (3-5)	43753
CHRYSO, Inc.	6173-01	Chrysofluid Optima 203	196-522 (3-8)	43823
CHRYSO, Inc.	6173-01	Chryso Plast MR720	195-780 (3-12)	43896
CHRYSO, Inc.	6173-01	Chryso EnviroMix N	195-780 (3-12)	43898
CHRYSO, Inc.	6173-01	Chryso Plast P150**	195-520 (3-8)	43899
CHRYSO, Inc.	6173-01	Chryso EnviroMix 159	195-782.4 (3-12)	43900
CHRYSO, Inc.	6173-01	Chryso Plast MR	326-910 (5-14)	43897
CHRYSO, Inc.	6173-01	Chryso Enviromix 380	195-652 (3-10)	43910
CHRYSO, Inc.	6173-01	Chryso Fluid Optima 256	130-586.8 (2-9)	43911
CHRYSO, Inc.	6173-01	Chryso Enviromix 728	326-1174 (5-18)	43928
Euclid Chemical Company	614-01	Eucon MR	260.8-978.0 (4.0-15.0)	43789
Euclid Chemical Company	614-01	Eucon WR **	260.8-782.4 (4.0-12.0)	43781
Euclid Chemical Company	614-01	Eucon WR 91 **	130.4-391.2 (2.0-6.0)	43782
Euclid Chemical Company	614-01	Eucon A+	195.6-521.6 (3.0-8.0)	43854
Euclid Chemical Company	614-01	Plastol 5500	130-522 (2-8)	43849
Euclid Chemical Company	614-01	Plastol 341	130-260 (2-4)	43893
Euclid Chemical Company	614-01	Plastol 6420	130-260 (2-4)	43914

NOTES: * 65.2 mL / 100 kg = 1.0 oz/cwt

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Bureau of Materials and Physical Research
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March 2, 2012

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TYPE A, WATER REDUCING ADMIXTURES, Continued

<u>Company Name</u>	<u>Producer/ Supplier No.</u>	<u>Brand Name</u>	Admixture Dosage Range	<u>Material Code No.</u>
			Based on Cementitious mL/100 kg (oz/cwt.) *	
General Resource Technology	5204-01	Melchem	195-1630 (3-25)	43770
General Resource Technology	5204-01	Polychem 400 NC**	195-326 (3-5)	43769
General Resource Technology	5204-01	Polychem 1000**	195-391 (3-6)	43760
General Resource Technology	5204-01	Polychem SPC	130-1304 (2-20)	43830
General Resource Technology	5204-01	Genesis 112	130-195 (2-3)	43873
General Resource Technology	5204-01	KB-2000	195-260 (3-4)	43919
General Resource Technology	5204-01	EVO 2500	130-195 (2-3)	43920
General Resource Technology	5204-01	Polychem 775	130-195 (2-3)	43921
General Resource Technology	5204-01	KB-1200	195-782 (3-12)	43922
W. R. Grace & Company	767-01	Daracem 55 **	195.6-586.8 (3.0-9.0)	43708
W. R. Grace & Company	767-01	Daracem 65	195.6-586.8 (3.0-9.0)	43765
W. R. Grace & Company	767-01	WRDA 82 **	195.6-391.2 (3.0-6.0)	43709
W. R. Grace & Company	767-01	WRDA with HYCOL	195.6-326.0 (3.0-5.0)	43710
W. R. Grace & Company	767-01	MIRA 62	195.6-652.0 (3.0-10.0)	43867
W. R. Grace & Company	767-01	Zyla 630	195.6-456.4 (3.0-7.0)	43864
W. R. Grace & Company	767-01	MIRA 35	195.6-782.4 (3.0-12.0)	43874
W. R. Grace & Company	767-01	MIRA 110	195.6-326.0 (3.0-5.0)	43870
W. R. Grace & Company	767-01	ADVA 140M	196-326 (3-5)	43917
Premiere Concrete Admixtures	6546-01	EcoFlo GREEN	97.8-652.0 (1.5-10.0)	43879
Premiere Concrete Admixtures	6546-01	OptiFlo 50**	195.6-521.6 (3.0-8.0)	43880
Premiere Concrete Admixtures	6546-01	OptiFlo 500	130.4-260.8 (2.0-4.0)	43881
Premiere Concrete Admixtures	6546-01	OptiFlo Plus	326.0-652.0 (5.0-10.0)	43884
Premiere Concrete Admixtures	6546-01	OptiFlo MR	260.8-782.4 (4.0-12.0)	43885
Premiere Concrete Admixtures	6546-01	UltraFlo 2000	195.6-391.2 (3.0-6.0)	43887
RussTech Admixtures, Inc.	3988-01	FinishEase-NC	196-782 (3-12)	43797
RussTech Admixtures, Inc.	3988-01	LC 400 P	196-326 (3-5)	43774
Sika Corporation	2231-01	Plastocrete 161	195.6-326.0 (3.0-5.0)	43714
Sika Corporation	2231-01	ViscoCrete 2100	65.2-195.6 (1.0-3.0)	43820
Sika Corporation	2231-01	Sikament 686	130.4-260.8 (2.0-4.0)	43827
Sika Corporation	2231-01	Sikaplast 500	156.6-782.4 (3.0-12.0)	43840

NOTES: * 65.2 mL/ 100 kg = 1.0 oz/cwt
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Illinois Department of Transportation
Bureau of Materials and Physical Research
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March 2, 2012

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TYPE B, RETARDING ADMIXTURES

<u>Company Name</u>	<u>Producer / Supplier No.</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.) *</u>	<u>Material Code No.</u>
Axim Italcementi Group	4695-01	Catexol 1000 R	97.8-260.8 (1.5-4.0)	43717
Axim Italcementi Group	4695-01	StopSet L	65.2-521.6 (1.0-8.0)	43847
BASF Construction Chemicals	4179-04	Delvo Stabilizer	195-326 (3-5)	43757
BASF Construction Chemicals	4179-04	Pozzolith 100 XR	130-260 (2-4)	43719
BASF Construction Chemicals	4179-04	Pozzolith 220 N	195.6-326.0 (3-5)	43713
BASF Construction Chemicals	4179-04	Pozzolith 300 R	195-325 (3-5)	43916
BASF Construction Chemicals	4179-04	Pozzolith 322 N	326-456 (5-7)	43753
W. R. Grace & Company	767-01	Recover	130-391 (2.0-6.0)	43758
RussTech Admixtures, Inc.	3988-01	LC-400 R	196-391 (3-6)	43762
RussTech Admixtures, Inc.	3988-01	LC-400 P	326-522 (5-8)	43774
Sika Corporation	2231-01	Plastiment**	130.4-260.8 (2.0-4.0)	43720
Sika Corporation	2231-01	Plastiment ES	130-260 (2-4)	43918
Sika Corporation	2231-01	Sikatard 440	261-522 (4-8)	43924

NOTES: * 65.2 mL/100 kg = 1.0 oz/cwt

** Contains Hydroxylated Carboxylic Acid (HCA) which may cause extended bleed water.

Illinois Department of Transportation
Bureau of Materials and Physical Research
APPROVED LIST OF CONCRETE ADMIXTURES
March 2, 2012

This list supersedes the February 24, 2012 list.
Standard Specifications for Road and Bridge Construction, Section 1021 (Adopted January 1, 2012)

TYPE C, ACCELERATING ADMIXTURES

<u>Company Name</u>	<u>Producer / Supplier No.</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.) *</u>	<u>Material Code No.</u>
Axim Italcementi Group	4695-01	Vibroplex NC	325-3910 (5.0-60.0)	43926
BASF Construction Chemicals	4179-04	Pozzolith NC 534	652-2934 (10-45)	43776
BASF Construction Chemicals	4179-04	Pozzutec 20+	326-3912 (5-60)	43822
BASF Construction Chemicals	4179-04	Rheocrete CNI***	Contact Manufacturer	43786
CHRYSO, Inc.	6173-01	Chryso TurboCast 701	650-5850 (10-90)	43901
CHRYSO, Inc.	6173-01	TurboCast 650A	489.0-5321 (7.5-54)	43902
Euclid Chemical Company	614-01	Accelguard 80	782.4-2086.4 (12.0-32.0)	43724
Euclid Chemical Company	614-01	Accelguard 90	652.0-5868.0 (10.0-90.0)	43852
Euclid Chemical Company	614-01	Eucon CIA***	652.0-4238.0 (10.0-65.0)	43853
General Resource Technology	5204-01	Polychem Super Set	521-2086 (8-32)	43773
W. R. Grace & Company	767-01	Lubricon-NCA	1043.0-2086.4 (16.0-32.0)	43729
W. R. Grace & Company	767-01	Polarset***	521.6-5216.0 (8.0-80.0)	43764
W. R. Grace & Company	767-01	DCI***	Contact Manufacturer	43725
W. R. Grace & Company	767-01	EXP 2002	652-3912 (10-60)	43927
Ozinga	1494-07	Oz-Set	652-5868 (10-90)	43877
Premiere Concrete Admixtures	6546-01	NitroCast K	391.2-5868.0 (6.0-90.0)	43882
Premiere Concrete Admixtures	6546-01	NitroCast 701	652.0-5868.0 (10.0-90.0)	43888
RussTech Admixtures, Inc.	3988-01	LCNC-166	522-5868 (8-90)	43761
RussTech Admixtures, Inc.	3988-01	RussTech RCI***	522-5868 (8-90)	43798
Sika Corporation	2231-01	Sikamix NCA	652.0-2934.0 (10.0-45.0)	43892
Sika Corporation	2231-01	Sika Rapid-1	521.6-3129.6 (8.0-48.0)	43793

NOTES: *65.2 mL/100 kg = 1.0 oz/cwt

**This admixture has a chloride content greater than 0.3%, and shall not be used in concrete containing steel unless allowed by specification or approved by the Engineer. The requirement applies even if the steel is epoxy coated.

***Calcium Nitrite

Illinois Department of Transportation
Bureau of Materials and Physical Research
APPROVED LIST OF CONCRETE ADMIXTURES
March 2, 2012

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Standard Specifications for Road and Bridge Construction, Section 1021 (Adopted January 1, 2012)

TYPE D, WATER REDUCING AND RETARDING ADMIXTURES

<u>Company Name</u>	<u>Producer / Supplier No.</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.) *</u>	<u>Material Code No.</u>
Axim Italcementi Group	4695-01	Catexol 1000 R	97.8-260.8 (1.5-4.0)	43717
Axim Italcementi Group	4695-01	StopSet L	65.2-521.6 (1.0-8.0)	43847
BASF Construction Chemicals	4179-04	Masterpave N ***	195-326 (3-5)	43807
BASF Construction Chemicals	4179-04	Delvo Stabilizer	195-326 (3-5)	43757
BASF Construction Chemicals	4179-04	Pozzolith 100 XR	130-260 (2-4)	43719
BASF Construction Chemicals	4179-04	Pozzolith 220 N	195.6-326.0 (3-5)	43713
BASF Construction Chemicals	4179-04	Pozzolith 300 R	195-325 (3-5)	43916
BASF Construction Chemicals	4179-04	Pozzolith 322 N	326-456 (5-7)	43753
CHRYSO, Inc.	6173-01	NutralSet	65-783 (1-12)	43904
CHRYSO, Inc.	6173-01	Chryso Tard 100R**	130-520 (2-8)	43903
Euclid Chemical Company	614-01	Eucon Retarder 100 **	130.4-391.2 (2.0-6.0)	43783
Euclid Chemical Company	614-01	Eucon 727**	48.9-195.6 (0.75-3.0)	43848
General Resource Technology	5204-01	Polychem R	130-326 (2-5)	43771
W. R. Grace & Company	767-01	Daratard 17	130.4-391.2 (2.0-6.0)	43733
W. R. Grace & Company	767-01	Recover	130.4-391.2 (2.0-6.0)	43758
W. R. Grace & Company	767-01	Daratard HC**	130.4-260.8 (2.0-4.0)	43895
Premiere Concrete Admixtures	6546-01	OptiFlo 500	260.8-521.6 (4.0-8.0)	43881
Premiere Concrete Admixtures	6546-01	OptiFlo RENU	195.6-391.2 (3.0-6.0)	43883
Premiere Concrete Admixtures	6546-01	OptiFlo 100R**	130.4-521.6 (2.0-8.0)	43886
RussTech Admixtures, Inc.	3988-01	LC-400 P	326-522 (5-8)	43774
RussTech Admixtures, Inc.	3988-01	LC-400 R	196-391 (3-6)	43762
Sika Corporation	2231-01	Plastiment **	130.4-260.8 (2.0-4.0)	43720
Sika Corporation	2231-01	Plastiment ES	130-260 (2-4)	43918

NOTES: * 65.2 mL/100 kg = 1.0 oz/cwt

** Contains Hydroxylated Carboxylic Acid (HCA) which may cause extended bleed water.

*** Lignin which may entrain air.

Illinois Department of Transportation
Bureau of Materials and Physical Research
APPROVED LIST OF CONCRETE ADMIXTURES
March 2, 2012

This list supersedes the February 24, 2012 list.
Standard Specifications for Road and Bridge Construction, Section 1021 (Adopted January 1, 2012)

TYPE E, WATER REDUCING AND ACCELERATING ADMIXTURES

<u>Company Name</u>	<u>Producer / Supplier No.</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.) *</u>	<u>Material Code No.</u>
Axim Italcementi Group	4695-01	Vibroplex NC	325-3910 (5.0-60.0)	43926
BASF Construction Chemicals	4179-04	Pozzutec 20+	326-3912 (5-60)	43822
Euclid Chemical Company	614-01	Accelguard 80	782.4-2086.4 (12.0-32.0)	43724
Euclid Chemical Company	614-01	Accelguard 90	652.0-5868.0 (10.0-90.0)	43852
General Resource Technology	5204-01	PolyChem HE	521-2086 (8-32)	43802
W. R. Grace & Company	767-01	Lubricon NCA	1043-2086 (16.0-32.0)	43729

NOTES: * 65.2 mL/100 kg = 1.0 oz/cwt

** This admixture has a chloride content, greater than 0.3%, and shall not be used in concrete containing steel unless allowed by specification or approved by the Engineer. The requirement applies even if the steel is epoxy coated.

Illinois Department of Transportation
Bureau of Materials and Physical Research
APPROVED LIST OF CONCRETE ADMIXTURES
March 2, 2012

This list supersedes the February 24, 2012 list.
Standard Specifications for Road and Bridge Construction, Section 1021 (Adopted January 1, 2012)

TYPE F, HIGH RANGE WATER REDUCING ADMIXTURES (SUPERPLASTICIZERS)

<u>Company Name</u>	<u>Producer / Supplier No.</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.) *</u>	<u>Material Code No.</u>
Axim Italcementi Group	4695-01	Allegro 122**	260.8-782.4 (4.0-12.0)	43815
Axim Italcementi Group	4695-01	CATEXOL 1000 SP-MN	652.0-2608.0 (10.0-40.0)	43735
Axim Italcementi Group	4695-01	Duraflux 66**	326.0-521.6 (5.0-8.0)	43846
Axim Italcementi Group	4695-01	Superflux 2000 PC**	195.6-652.0 (3.0-10.0)	43842
Axim Italcementi Group	4695-01	Duraflux 77**	260.8-391.2 (4.0-6.0)	43876
BASF Construction Chemicals	4179-04	Rheobuild 1000	652-1630 (10-25)	43746
BASF Construction Chemicals	4179-04	Glenium 3400 NV**	260-782 (4-12)	43817
BASF Construction Chemicals	4179-04	PS 1466**	195-652 (3-10)	43828
BASF Construction Chemicals	4179-04	Glenium 7500**	195-978 (3-15)	43832
BASF Construction Chemicals	4179-04	PolyHeed 1720**	652-782 (10-12)	43837
BASF Construction Chemicals	4179-04	GLENIUM 7700**	260-975 (4-15)	43894
BASF Construction Chemicals	4179-04	PS 1583**	326.0-978.0 (5.0-15.0)	43915
CHRYSO, Inc.	6173-01	Chrysofluid Optima 203**	326-1304 (5-20)	43823
CHRYSO, Inc.	6173-01	Chryso ProPel 3300	522-1435 (8-22)	43905
CHRYSO, Inc.	6173-01	Chryso ProPel 4600	457-1305 (7-20)	43907
CHRYSO, Inc.	6173-01	Chryso ProPel AG	522-1435 (8-22)	43906
CHRYSO, Inc.	6173-01	Chryso Propel XL25**	457-783 (7-12)	43908
Euclid Chemical Company	614-01	Eucon 37	391.2-978.0 (6.0-15.0)	43740
Euclid Chemical Company	614-01	Eucon 1037	391.2-782.4 (6.0-12.0)	43800
Euclid Chemical Company	614-01	Plastol 5500**	130.4-521.6 (2.0-8.0)	43849
Euclid Chemical Company	614-01	Eucon MRX	195-782 (3-12)	43875
Euclid Chemical Company	614-01	Plastol 341**	391-650 (6-10)	43891
Euclid Chemical Company	614-01	Plastol Ultra 109**	130-780 (2-12)	43913
Euclid Chemical Company	614-01	Plastol 6420**	391-650 (6-10)	43914

NOTES: * 65.2 mL/100 kg = 1.0 oz/cwt
** Polycarboxylate

Illinois Department of Transportation
Bureau of Materials and Physical Research
APPROVED LIST OF CONCRETE ADMIXTURES
March 2, 2012

This list supersedes the February 24, 2012 list.
Standard Specifications for Road and Bridge Construction, Section 1021 (Adopted January 1, 2012)

TYPE F, HIGH RANGE WATER REDUCING ADMIXTURES (SUPERPLASTICIZERS), Continued

<u>Company Name</u>	<u>Producer / Supplier No.</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.) *</u>	<u>Material Code No.</u>
General Resource Technology	5204-01	Melchem	195-1630 (3-25)	43770
General Resource Technology	5204-01	Polychem 3000**	65-1304 (1-20)	43810
General Resource Technology	5204-01	Polychem SPC**	130-1304 (2-20)	43830
General Resource Technology	5204-01	Genesis 112**	391-1304 (6-20)	43873
General Resource Technology	5204-01	KB-2000**	587-782 (9-12)	43919
General Resource Technology	5204-01	EVO 2500**	391-1304 (6-20)	43920
General Resource Technology	5204-01	Polychem 775**	391-1304 (6-20)	43921
W. R. Grace & Company	767-01	Daracem 19	652.0-1043.2 (10.0-16.0)	43743
W. R. Grace & Company	767-01	Daracem 100	456.4-782.4 (7.0-12.0)	43742
W. R. Grace & Company	767-01	Daracem ML 330	782.4-1630.0 (12.0-25.0)	43738
W. R. Grace & Company	767-01	ADVA Cast 530**	195.6-326.0 (3.0-5.0)	43813
W. R. Grace & Company	767-01	ADVA 190**	195.6-391.2 (3.0-6.0)	43831
W. R. Grace & Company	767-01	ADVA Cast 575**	228.2-326.0 (3.5-5.0)	43836
W. R. Grace & Company	767-01	MIRA 62	652.0-978.0 (10.0-15.0)	43867
W. R. Grace & Company	767-01	ADVA 408**	456.4-782.4 (7.0-12.0)	43868
W. R. Grace & Company	767-01	ADVA 405**	456.4-782.4 (7.0-12.0)	43869
W. R. Grace & Company	767-01	MIRA 110	652.0-1043.2 (10.0-16.0)	43870
W. R. Grace & Company	767-01	ADVA 140M**	587-1043 (9-16)	43917
W. R. Grace & Company	767-01	ADVA Cast 600	130-652 (2-10)	43923
Premiere Concrete Admixtures	6546-01	UltraFlo 2000**	456.4-1043.2 (7.0-16.0)	43887
Premiere Concrete Admixtures	6546-01	UltraFlo 4600	456.4-1564.8 (7.0-24.0)	43889
Premiere Concrete Admixtures	6546-01	UltraFlo DP**	260.8-912.8 (4.0-14.0)	43890
RussTech Admixtures, Inc.	3988-01	SuperFlo 2000 RM**	456-1304 (7-20)	43803
RussTech Admixtures, Inc.	3988-01	Superflo 2040 RM**	65-522 (1-8)	43872
Sika Corporation	2231-01	Viscocrete 2100**	130.4-391.2 (2.0-6.0)	43820
Sika Corporation	2231-01	Viscocrete 6100**	195.6-521.6 (3.0-8.0)	43809
Sika Corporation	2231-01	Sikament 686**	195.6-782.4 (3.0-12.0)	43827

NOTES: * 65.2 mL/100 kg = 1.0 oz/cwt
** Polycarboxylate

Illinois Department of Transportation
 Bureau of Materials and Physical Research
APPROVED LIST OF CONCRETE ADMIXTURES
March 2, 2012

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 Standard Specifications for Road and Bridge Construction, Section 1021 (Adopted January 1, 2012)

TYPE G, HIGH RANGE WATER REDUCING AND RETARDING ADMIXTURES
(SUPERPLASTICIZERS)

<u>Company Name</u>	<u>Producer / Supplier No.</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.) *</u>	<u>Material Code No.</u>
W. R. Grace & Company	767-01	Daracem 100	521-1304 (8.0-20.0)	43742

NOTES: * 65.2 mL/100 kg = 1.0 oz/cwt

Illinois Department of Transportation
Bureau of Materials and Physical Research
APPROVED LIST OF CONCRETE ADMIXTURES
March 2, 2012

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Standard Specifications for Road and Bridge Construction, Section 1021 (Adopted January 1, 2012)

TYPE F, ONE COMPONENT SELF-CONSOLIDATING ADMIXTURE SYSTEM

<u>Company Name</u>	<u>Producer / Supplier No.</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.)*</u>	<u>Material Code No.</u>
AXIM Italcementi Group	4695-01	Allegro 122***	260.8-782.4 (4.0-12.0)	43815
BASF Construction Chemicals	4179-04	PS 1466***	260.8-652.0 (4-10)	43828
BASF Construction Chemicals	4179-04	Glenium 3400 NV***	391-782 (6-12)	43817
Euclid Chemical Company	614-01	Plastol 5500	130-978 (2-15)	43849
Euclid Chemical Company	614-01	Plastol Ultra 109	130-978 (2-15)	43913
General Resource Technology	5204-01	Polychem 3000***	65-1304 (1-20)	43810
General Resource Technology	5204-01	Polychem SPC***	130-1956 (2-20)	43830
General Resource Technology	5204-01	Genesis 112***	391-1304 (6-20)	43873
W. R. Grace & Company	767-01	ADVA Cast 530***	391.2-652.0 (6.0-10.0)	43813
W. R. Grace & Company	767-01	ADVA Cast 575***	326-586 (5.0-9.0)	43836
W. R. Grace & Company	767-01	ADVA 408***	782-1173 (12.0-18.0)	43868
W. R. Grace & Company	767-01	ADVA 405***	782-1173 (12.0-18.0)	43869
RussTech Admixtures, Inc.	3988-01	Superflo 2000 RM***	456-1304 (7-20)	43803
Sika Corporation	2231-01	Viscocrete 2100***	391.2-782.4 (6.0-12.0)	43820
Sika Corporation	2231-01	Viscocrete 6100***	391.2-782.4 (6.0-12.0)	43809

TYPE F / TYPE S (VMA), TWO COMPONENT SELF-CONSOLIDATING ADMIXTURE SYSTEM**

<u>Company Name</u>	<u>Producer / Supplier No.</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.)*</u>	<u>Material Code No.</u>
BASF Construction Chemicals	4179-04	Glenium 3400 NV***	319-782 (6-12)	43817
BASF Construction Chemicals	4179-04	Rheomac VMA 362**	391-782 (6-14)	43818
BASF Construction Chemicals	4179-04	PS 1466***	260.8-652.0 (4-10)	43828
BASF Construction Chemicals	4179-04	Rheomac VMA 362**	391-782 (6-14)	43818

TYPE S, RHEOLOGY-CONTROLLING ADMIXTURE

<u>Company Name</u>	<u>Producer / Supplier No.</u>	<u>Brand Name</u>	<u>Admixture Dosage Range Based on Cementitious mL/100 kg (oz/cwt.)*</u>	<u>Material Code No.</u>
BASF Construction Chemicals	4179-04	Navitas 33	130-780 (2-12)	43878

NOTES: * 65.2 mL/100 kg = 1.0 oz/cwt
** Type S, Viscosity Modifying Admixture (VMA)
*** Polycarboxylate

**Concrete Admixtures
Submittal for Approval**

Effective: July 27, 2007
Revised: July 24, 2009

Page 1 of 2

A. Scope

The following guidelines are provided to clarify the submittal requirements for approving a concrete admixture according to Section 1021 of the Standard Specifications for Road and Bridge Construction¹.

B. Procedure

When submitting a new concrete admixture to the Department, the following shall be included in the certification:

- The specific product brand name,
- The type of admixture (ASTM designation),
- Certification of the manufacturing range for specific gravity according to ASTM C 494,
- Certification of the midpoint and manufacturing range for residue by oven drying according to
 - ASTM C 494 for admixture types A – G, Viscosity Modifying Admixture (Type S), and Rheology-Controlling Admixture (Type S)
 - ASTM C 260 for air-entraining admixtures,
- Certification of the manufacturing range for pH according to ASTM E 70,
- Certification of the product dosage range (in oz/cwt.),
- An infrared spectrophotometer trace (IR) of current production material, no more than five years old (the IR scan should be labeled with the date the scan was performed, the product name, and the manufacturer's name),
- AASHTO accredited independent laboratory tests results, no more than five years old, in accordance to:
 - ASTM C 494 for admixture types A – G, Viscosity Modifying Admixture (Type S), and Rheology-Controlling Admixture (Type S)
 - ASTM C 260 for air-entraining admixtures,
- Material Safety Data Sheet,
- Technical Data Sheet,
- The amount by weight of chloride bearing compounds, or other similar additives or chemical agents present in the admixture,
- A signed letter stating the subject material will not be changed without written notification to the Department,
- Contact person's name, title, address, email address, and phone number, and
- Acknowledgement by Company (see next page).

The submittal information shall be sent to:

Melinda Winkelman
Illinois Department of Transportation
Bureau of Materials & Physical Research
126 East Ash Street
Springfield, IL 62704-4766

¹ <http://www.dot.il.gov/desenv/hwyspecs.html>

**Concrete Admixtures
Submittal for Approval**

Effective: July 27, 2007

Revised: July 24, 2009

Page 2 of 2

Prior to approval of an admixture, the Engineer reserves the right to request a sample for testing. If the Engineer decides to test the admixture, the manufacturer shall submit AASHTO T 197 water content and set time test results on the standard cement used by the Department. The test and reference concrete mixture shall contain a cement content of 5.65 cwt/cu yd (335 kg/cu m). The manufacturer may select their lab or an independent lab to perform this testing. The laboratory is not required to be accredited by AASHTO. [The manufacturer is advised that all products in the ASTM C 494, Type S category are still being tested by the Department at this time.](#)

The manufacturer will be notified when the submittal review is complete. For questions regarding the approval process, contact Melinda Winkelman at 217-782-0117.

C. Recertification

Annual recertification of all concrete admixtures is required. During the last quarter of the calendar year, a recertification letter will be sent to the manufacturer. The recertification paperwork is due January of the following year. During recertification, the manufacturer establishes the ranges for specific gravity, residue by oven drying, and pH for the upcoming production season. For example, the recertification letter is sent late November 2009 and due by mid January of 2010. The recertification paperwork sets the ranges for the products to be made during the 2010 calendar year.

¹ <http://www.dot.il.gov/desenv/hwyspecs.html>

Illinois Department of Transportation
Bureau of Materials and Physical Research

**Concrete Admixtures
Submittal for Approval**

Effective: July 27, 2007
Revised: November 21, 2008

Instructions for Acknowledgement by Company:

The owner, partner, or corporate officer shall complete the following and return a signed and dated copy with the product submittal or recertification.

_____ desires to obtain advance approval of materials to be
(Insert name of company)
supplied to Department of Transportation contractors as more fully described herein. I
and _____ understand that the Department of Transportation
(Insert name of company)
reserves the right in its contracts to approve materials at the source of supply as
provided in Article 106.01 of the Standard Specifications for Road and Bridge
Construction. I and _____ further understand that approval of
(Insert name of company)
company supplied material pursuant to this request does not constitute a contract to
supply material to the State of Illinois or any of its contractors, and that the Department
of Transportation does not assure or guarantee that any materials approved hereunder
will be supplied to the State or any of its contractors. In consideration of approval, I and
_____ agree to the terms, conditions and performance
(Insert name of company)
standards of the Standard Specifications for Road and Bridge Construction.

Type of Company: Individual Partnership Corporation

Company Name _____

Printed Name _____

Signature _____

Title _____

Business Address _____

City/State/Zip Code _____

Date of Signature _____