

Illinois Department of Transportation
Bureau of Materials

Qualified Product List
CONCRETE ADMIXTURES

July 9, 2021

This list supersedes the May 14, 2021 list.

Standard Specifications for Road and Bridge Construction, Section 1021 (Adopted April 1, 2016)

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

QUALIFIED PRODUCT LIST: REFERENCE SECTION

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Applicable Specifications For Determining Admixture Dosage

Refer to the Supplemental Specification for Section 1020. Portland Cement Concrete.

FOR INFORMATION ONLY - 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," 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/qualified product 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>
Euclid Chemical Company	614-01	Eucon MR (1)	260-978 (4-15)	A	43789
Euclid Chemical Company	614-01	Eucon MRX (1)	325-652 (5-7)	A/F	43875
Euclid Chemical Company	614-01	Plastol 6420***	260.8-391.2 (4.0-6.0)	A/F	43914
GCP Applied Technologies	767-01	MIRA 35	326-783 (5-12)	A	43874
GCP Applied Technologies	767-01	MIRA 62	260-783 (4-12)	A/F	43867
GCP Applied Technologies	767-01	MIRA 110	326-652 (5-10)	F	43870
GCP Applied Technologies	767-01	ADVA Cast 600	65.2-260.8 (1-4)	F	43923
GCP Applied Technologies	767-01	ADVA 140M***	652-586 (5-9)	A/F	43917

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

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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>Approved As Type A and/or Type F</u>	<u>Material Code No.</u>
Mapei	6354-02	Polychem 3000***	260-391 (4-6)	F	43810
Mapei	6354-02	Polychem SPC***	195-391 (3-6)	F	43933
Master Builders Solutions US	1254-01	MasterPolyheed 997	391-978 (6-15)	A	43755
Master Builders Solutions US	1254-01	MasterPolyheed 1720***	325-652 (5-10)	A/F	43837
Master Builders Solutions US	1254-01	MasterRheobuild 1000	586-783 (9-12)	F	43746
Master Builders Solutions US	1254-01	MasterGlenium 3400***	130-260 (2-4)	F	43817
Master Builders Solutions US	1254-01	MasterGlenium 7700***	130-260 (2-4)	F	43894
Master Builders Solutions US	1254-01	MasterPolyheed 900	391-978 (6-15)	A	43912
Master Builders Solutions US	1254-01	MasterGlenium 7511***	228.2-456.4 (3.5-7.0)	A/F	43915
Master Builders Solutions US	1254-01	MasterGlenium 7920***	195.6-391.2 (3.0-6.0)	F	43947
Premiere Concrete Admixtures	6546-01	OptiFlo MR	652-783 (7-12)	A	43885
Premiere Concrete Admixtures	6546-01	UltraFlo 2000	260-391 (4-6)	F	43887
Premiere Concrete Admixtures	6546-01	EcoFlo GREEN	260-391 (4-6)	F	43879
RussTech Admixtures, Inc.	3988-01	FinishEase-NC (1)	521.60-652.00 (8.00-12.00)	A	43797
Sika Corporation	2231-01	Sikament 686***	260-783 (4.0-8.0)	A/F	43827
Sika Corporation	2231-01	Viscocrete 2100***	195-391 (2.0-5.0)	A/F	43820
Sika Corporation	2231-01	SikaPlast-200 (1)	456-978 (7.0-12.0)	A	43929
Sika Corporation	2231-01	Sikament SPMN (1)	456-782 (7.0-12.0)	F	43930
Sika Corporation	2231-01	ViscoCrete 1000***	260.8-782.4 (4.0-8.0)	F	43925
Sika Corporation	2231-01	ViscoCrete 4100***	195.6-391.2 (2.0-5.0)	F	43833
Sika Corporation	2231-01	ViscoCrete 6100***	195.6-391.2 (2.0-5.0)	F	43809

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

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Admixture Company Contacts

DarCole Products, Inc.
PO Box 1460
Henderson, KY 42419-1460
www.darcole.com
270-826-6499
Mr. Ryan Risley – 270-957-0346

Euclid Chemical Company
19320 Redwood Road
Cleveland, OH 44110
www.euclidchemical.com
Mr. Heath Morrall – 815-289-4605

GCP Applied Technologies
62 Whittemore Avenue
Cambridge, MA 02140
www.GCPat.com
Mr. Ryan Scott – 812-786-4399
Mr. Jeff Helgeson – 815-342-5760

MAPEI
1144 East Newport Center Drive
Deerfield Beach, FL 33442
www.mapei.com
Mr. Steve Hawkins – 314-570-3885

Master Builders Solutions US
23700 Chagrin Boulevard
Cleveland, OH 44122
www.master-builders-solutions.com
708-267-4166
Mr. Brad Pfanenstiel

Ozinga
2222 South Lumber Street
Chicago, IL 60616
www.ozinga.com
708-932-0916
Mr. Ryan Cialdella

Premiere Concrete Admixtures
508 Cedar Street
P.O. Box 277
Pioneer, OH 43554
800-503-3418
989-255-6807
Mr. James Sobek

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.usa.sika.com
Mr. Nate Artman – 330-495-0109
Mr. Vince Maniscalco – 815-202-5601

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QUALIFIED PRODUCT 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>
DarCole Products, Inc.	7217-01	DSA 110	16.3-130 (0.25-2)	42197
Euclid Chemical Company	614-01	Eucon AEA 92	6.52-60.82 (0.1-4.0)	42153
Euclid Chemical Company	614-01	Eucon Air Mac12	6-260 (0.1-4.0)	42187
Euclid Chemical Company	614-01	Eucon AEA 92S	30-130 (0.5-2)	42193
Euclid Chemical Company	614-01	Eucon Air Mix 250	0.652-195.6 (0.01-3.0)	42198
GCP Applied Technologies	767-01	Darex II AEA	32.6-326.0 (0.5-5.0)	42138
GCP Applied Technologies	767-01	Daravair 1400	32.6-195.6 (0.5-3.0)	42147
GCP Applied Technologies	767-01	Terapave AEA	16.3-195.6 (0.25-3.0)	42169
GCP Applied Technologies	767-01	Daravair AT30	15-200 (0.25-3.0)	42189
GCP Applied Technologies	767-01	Airalon 7000	32.5-195 (0.5-3.0)	42195
Mapei	6354-02	Polychem AE	16-130 (0.25-2.0)	42151
Mapei	6354-02	Polychem SA	13.0-130.4 (0.20-2.0)	42165
Mapei	6354-02	Polychem SA-50	32.6-195.6 (0.50-3.0)	42181
Mapei	6354-02	Polychem VR*	8.15-195.6 (0.125-3.0)	42150
Master Builders Solutions US	1254-01	MasterAir AE 90	16.3-260.8 (0.25-4.0)	42140
Master Builders Solutions US	1254-01	MasterAir VR 10*	16.3-260.8 (0.25-4.0)	42110
Master Builders Solutions US	1254-01	MasterAir AE 200	8.15-97.8 (0.125-1.5)	42129
Master Builders Solutions US	1254-01	MasterAir AE 400	16.30-260.8 (0.25-4.0)	42182
Premiere Concrete Admixtures	6546-01	ConAir	13.0-195.6 (0.2-3.0)	42172
Premiere Concrete Admixtures	6546-01	ConAir 260	13.0-260.8 (0.2-4.0)	42173
Premiere Concrete Admixtures	6546-01	ConAir X	13.0-260.8 (0.2-4.0)	42199
RussTech Admixtures, Inc.	3988-01	RSA-10	32.60-130.40 (0.50-4.00)	42144
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	SikaControl AIR-160	6.5-391.2 (0.1-6.0)	42196
Sika Corporation	2231-01	Sika AIR-260	6.5-391.2 (0.1-6.0)	42184
Sika Corporation	2231-01	Sika AIR-360	6.52-391.2 (0.1-6.0)	42185

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

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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>
DarCole Products, Inc.	7217-01	DNL 485***	261-652 (4-10)	43958
DarCole Products, Inc.	7217-01	DNL 785***	391-782 (6-12)	43960
DarCole Products, Inc.	7217-01	DWR 385***	196-391 (3-6)	43956
Euclid Chemical Company	614-01	Eucon MR	195.6-652.0 (3.0-10.0)	43789
Euclid Chemical Company	614-01	Eucon WR***	130.4-652.0 (2.0-10.0)	43781
Euclid Chemical Company	614-01	Eucon WR 91***	130.4-652.0 (2.0-10.0)	43782
Euclid Chemical Company	614-01	Plastol 6420	130.4-652.0 (2.0-12.0)	43914
Euclid Chemical Company	614-01	Eucon MRX***	195-326 (3-5)	43875
Euclid Chemical Company	614-01	Plastol 6400	130-780 (2-12)	43950
GCP Applied Technologies	767-01	WRDA 82 ***	195.6-326.0 (3.0-5.0)	43709
GCP Applied Technologies	767-01	MIRA 62**	163.0-326.0 (2.5-5.0)	43867
GCP Applied Technologies	767-01	Zyla 630	195.6-326.0 (3.0-5.0)	43864
GCP Applied Technologies	767-01	MIRA 35***	195.6-782.4 (3.0-12.0)	43874
GCP Applied Technologies	767-01	MIRA 110**	195.6-326.0 (3.0-8.0)	43870
GCP Applied Technologies	767-01	ADVA 140M**	195.6-326.0 (3.0-5.0)	43917
GCP Applied Technologies	767-01	ADVA Cast 600**	65.2-195.6 (1.0-3.0)	43923
GCP Applied Technologies	767-01	MIRA 95**	130.4-391.2 (2.0-6.0)	43954

NOTES: * 65.2 mL/ 100 kg = 1.0 oz/cwt
 ** Polycarboxylate
 *** Lignin which may entrain air and retard set.

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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.) *	
Mapei	6354-02	Polychem 400NC***	195.6-326.0 (3.0-5.0)	43769
Mapei	6354-02	EVO 2500**	130.4-195.6 (2.0-3.0)	43920
Mapei	6354-02	KB1200***	195.6-782.4 (3.0-12.0)	43922
Master Builders Solutions US	1254-01	MasterPozzolith 80***	260-391 (4-6)	43711
Master Builders Solutions US	1254-01	MasterPolyheed 997***	195-391 (3-6)	43755
Master Builders Solutions US	1254-01	MasterPolyheed 1720	195-326 (3-5)	43837
Master Builders Solutions US	1254-01	MasterPolyheed 900	195-391 (3-6)	43912
Master Builders Solutions US	1254-01	MasterPozzolith 322	195-391 (3-5)	43753
Premiere Concrete Admixtures	6546-01	OptiFlo 50***	195.6-391.2 (3.0-6.0)	43880
Premiere Concrete Admixtures	6546-01	OptiFlo 500	130.4-260.8 (2.0-4.0)	43881
Premiere Concrete Admixtures	6546-01	OptiFlo PLUS	326.0-782.4 (5.0-12.0)	43884
Premiere Concrete Admixtures	6546-01	OptiFlo MR	260.8-782.4 (4.0-12.0)	43885
Premiere Concrete Admixtures	6546-01	OptiFlo 700***	195.6-652.0 (3.0-10.0)	43941
Premiere Concrete Admixtures	6546-01	OptiFlo N2A	195.6-586.8 (3.0-9.0)	43962
RussTech Admixtures, Inc.	3988-01	FinishEase-NC***	195.60-782.40 (3.00-7.00)	43797
RussTech Admixtures, Inc.	3988-01	LC 400P***	195.60-326.00 (3.00-5.00)	43774
RussTech Admixtures, Inc.	3988-01	Superflo 2000 RM**	65.2-391.2 (1.00-6.00)	43803
Sika Corporation	2231-01	Sika Plastocrete-161***	195.6-326.0 (2.0-6.0)	43714
Sika Corporation	2231-01	ViscoCrete 2100**	65.2-195.6 (1.0-3.0)	43820
Sika Corporation	2231-01	Sikament 686**	130.4-326.0 (2.0-5.0)	43827
Sika Corporation	2231-01	Sikaplast-200	195.6-521.6 (3.0-8.0)	43929

NOTES: * 65.2 mL/ 100 kg = 1.0 oz/cwt
 ** Polycarboxylate
 *** Lignin which may entrain air and retard set.

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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>
Euclid Chemical Company	614-01	Eucon Stasis	261-1043 (4-16)	43949
GCP Applied Technologies	767-01	Recover	130-391 (2.0-6.0)	43758
Mapei	6354-02	Polychem RENU	195.6-391.2 (3.0-6.0)	43936
Master Builders Solutions US	1254-01	MasterSet DELVO	195-326 (3-5)	43757
Master Builders Solutions US	1254-01	MasterSet R 100	130-260 (2-4)	43719
Master Builders Solutions US	1254-01	MasterSet R 300	195-325 (3-5)	43916
Premiere Concrete Admixtures	6546-01	ProLong L	130.4-521.6 (2.0-8.0)	43961
RussTech Admixtures, Inc.	3988-01	LC-400R	195.60-391.20 (3.00-6.00)	43762
RussTech Admixtures, Inc.	3988-01	LC-400P***	326.00-521.60 (5.00-8.00)	43774
Sika Corporation	2231-01	Sika Plastiment**	130.4-260.8 (2.0-4.0)	43720
Sika Corporation	2231-01	Sikatard 440	261-522 (2.0-8.0)	43924

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 and retard set.

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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>
DarCole Products, Inc.	7217-01	DNS 166	587-3521 (9-54)	43959
Euclid Chemical Company	614-01	Accelguard 80	652.0-5868.0 (10.0-90.0)	43724
Euclid Chemical Company	614-01	Accelguard 90	652.0-5868.0 (10.0-90.0)	43852
Euclid Chemical Company	614-01	Eucon CIA***	652.0-5868.0 (10.0-90.0)	43853
GCP Applied Technologies	767-01	Polarset***	521.6-5216.0 (8.0-80.0)	43764
GCP Applied Technologies	767-01	DCI***	652-3912 (10-60)	43725
GCP Applied Technologies	767-01	Daraset 442	521.6-3912.0 (8.0-60.0)	43927
Mapei	6354-02	Polychem Super Set	521.6-2086.4 (8.0-32.0)	43773
Master Builders Solutions US	1254-01	MasterSet AC 534	652-2934 (10-45)	43776
Master Builders Solutions US	1254-01	MasterSet FP 20	326-3912 (5-60)	43822
Master Builders Solutions US	1254-01	MasterLife CI 30***	Contact Manufacturer	43786
Ozinga	1494-07	Oz-Set 2	652-5868 (10-90)	43946
Premiere Concrete Admixtures	6546-01	Impede CNI***	652.0-5868.0 (10.0-90.0)	43964
RussTech Admixtures, Inc.	3988-01	LCNC-166	521.60-5868.00 (8.00-90.00)	43761
RussTech Admixtures, Inc.	3988-01	RussTech RCI***	521.60-5868.00 (8.00-90.00)	43798
Sika Corporation	2231-01	Sika Rapid-1	521.6-3129.6 (8.0-48.0)	43793
Sika Corporation	2231-01	SikaSet NC-4	586.8-2608.0 (9.0-40.0)	43935

- 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

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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>
Euclid Chemical Company	614-01	Eucon Retarder 100 **	65.2-521.6 (1.0-8.0)	43783
Euclid Chemical Company	614-01	Eucon Stasis	261-1043 (4-16)	43949
GCP Applied Technologies	767-01	Recover	130.4-391.2 (2.0-6.0)	43758
GCP Applied Technologies	767-01	Zyla 630	326.0-456.4 (5.0-7.0)	43864
GCP Applied Technologies	767-01	WRDA-82***	326-391.2 (5-6)	43709
Mapei	6354-02	Polychem R**	130.4-326.0 (2.0-5.0)	43771
Master Builders Solutions US	1254-01	MasterSet DELVO	195-326 (3-5)	43757
Master Builders Solutions US	1254-01	MasterSet R 100	130-260 (2-4)	43719
Master Builders Solutions US	1254-01	MasterSet R 300	195-325 (3-5)	43916
Premiere Concrete Admixtures	6546-01	OptiFlo 500	260.8-521.6 (4.0-8.0)	43881
Premiere Concrete Admixtures	6546-01	OptiFlo 50***	391.2-652.0 (6.0-10.0)	43880
Premiere Concrete Admixtures	6546-01	OptiFlo 100R	195.6-652.0 (3.0-10.0)	43886
RussTech Admixtures, Inc.	3988-01	LC-400P	326.00-521.60 (5.00-8.00)	43774
RussTech Admixtures, Inc.	3988-01	LC-400R	195.60-391.20 (3.00-6.00)	43762
Sika Corporation	2231-01	Sika Plastiment **	130.4-260.8 (2.0-4.0)	43720

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.

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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>
Euclid Chemical Company	614-01	Accelguard 80	652.0-5868.0 (10.0-90.0)	43724
Euclid Chemical Company	614-01	Accelguard 90	652.0-5868.0 (10.0-90.0)	43852
Master Builders Solutions US	1254-01	MasterSet FP 20	326-3912 (5-60)	43822
Premiere Concrete Admixtures	6546-01	NitroCast K	652.0-5868.0 (10.0-90.0)	43882
Premiere Concrete Admixtures	6546-01	NitroCast NC	652.0-5868.0 (10.0-90.0)	43963
RussTech Admixtures, Inc.	3988-01	LCNC-166	522-5870 (8-90)	43761
Sika Corporation	2231-01	SikaSet NC-4	586.8-2608.0 (9.0-40.0)	43935

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.

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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>
DarCole Products, Inc.	7217-01	Superflo 1443SCC	196-1695 (3-26)	43957
Euclid Chemical Company	614-01	Eucon 37	391.2-1564.8 (6.0-24.0)	43740
Euclid Chemical Company	614-01	Eucon 1037	521.6-1630.0 (8.0-25.0)	43800
Euclid Chemical Company	614-01	Eucon MRX***	456-782 (7-12)	43875
Euclid Chemical Company	614-01	Plastol 6420**	260.8-1173.6 (2.0-12.0)	43914
Euclid Chemical Company	614-01	Plastol 6400**	200-780 (2-12)	43950
Euclid Chemical Company	614-01	Plastol Ultra 209**	130-780 (2-12)	43951
GCP Applied Technologies	767-01	Daracem 19	652.0-1043.2 (10.0-16.0)	43743
GCP Applied Technologies	767-01	ADVA Cast 575**	228.2-326.0 (2.0-5.0)	43836
GCP Applied Technologies	767-01	MIRA 62**	521.6-978.0 (8.0-15.0)	43867
GCP Applied Technologies	767-01	ADVA Cast 600**	195.6-326.0 (3.0-5.0)	43923
GCP Applied Technologies	767-01	ADVA 140M **	587-1043 (9-16)	43917
GCP Applied Technologies	767-01	ADVA Cast 585**	130.4-652.0 (2.0-10.0)	43938
GCP Applied Technologies	767-01	MIRA 95**	521.6-978.0 (6.0-12.0)	43954

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

***Lignin which may entrain air and retard set.

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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>
Mapei	6354-02	Melchem	391.2-1630.0 (6.0-25.0)	43770
Mapei	6354-02	Polychem 3000**	391.2-1304.0 (6.0-20.0)	43810
Mapei	6354-02	Polychem SPC**	130.4-1304.0 (2.0-20.0)	43933
Mapei	6354-02	EVO 2500**	391.2-1304.0 (6.0-20.0)	43920
Mapei	6354-02	PC-441***	521.6-1173.6 (8.0-18.0)	43937
Master Builders Solutions US	1254-01	MasterRheobuild 1000	652-1630 (12-25)	43746
Master Builders Solutions US	1254-01	MasterGlenium 3400**	260-782 (4-12)	43817
Master Builders Solutions US	1254-01	MasterGlenium 7500**	195-978 (3-15)	43832
Master Builders Solutions US	1254-01	MasterGlenium 7511**	326.0-978.0 (5.0-15.0)	43915
Master Builders Solutions US	1254-01	MasterGlenium 7920**	130.4-782.4 (2.0-12.0)	43947
Premiere Concrete Admixtures	6546-01	UltraFlo 2000**	456.4-1043.2 (6.0-16.0)	43887
Premiere Concrete Admixtures	6546-01	UltraFlo DP**	260.8-912.8 (4.0-14.0)	43890
Premiere Concrete Admixtures	6546-01	EcoFlo GREEN	521.6-912.8 (8.0-14.0)	43978
Premiere Concrete Admixtures	6546-01	OptiFlo MR	782.4-1043.2 (12.0-16.0)	43885
Premiere Concrete Admixtures	6546-01	UltraFlo 5600***	391.2-1043.2 (6.0-16.0)	43942
RussTech Admixtures, Inc.	3988-01	SuperFlo 2000 RM**	456.40-1304.00 (7.00-20.00)	43803
RussTech Admixtures, Inc.	3988-01	Superflo 2040 RM**	65.20-521.60 (1.00-8.00)	43872
Sika Corporation	2231-01	Viscocrete 2100**	195.6-391.2 (3.0-6.0)	43820
Sika Corporation	2231-01	Viscocrete 6100**	195.6-521.6 (3.0-8.0)	43809
Sika Corporation	2231-01	Sikament 686**	326.0-782.4 (5.0-12.0)	43827
Sika Corporation	2231-01	Sikament SPMN	652.0-2608.0 (10.0-40.0)	43930
Sika Corporation	2231-01	ViscoCrete 4100**	195.6-521.6 (3.0-8.0)	43833
Sika Corporation	2231-01	ViscoCrete 1000**	326.0-782.4 (5.0-12.0)	43925

NOTES: * 65.2 mL/100 kg = 1.0 oz/cwt
 ** Polycarboxylate
 ***Lignin which may entrain air and retard set.

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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>
Premiere Concrete Admixtures	6546-01	OptiFlo N2A	782.4-978.0 (12.0-15.0)	43962

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

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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>
BASF Corporation	4179-04	MasterGlenium 3400***	391-782 (6-12)	43817
BASF Corporation	4179-04	MasterGlenium 7511***	326.0-978.0 (5.0-15.0)	43915
BASF Corporation	4179-04	MasterGlenium 7920***	195.6-782.4 (3.0-12.0)	43947
Euclid Chemical Company	614-01	Plastol Ultra 209***	130-780 (2-12)	43951
Euclid Chemical Company	614-01	Plastol 6400***	200-780 (2-12)	43950
GCP Applied Technologies	767-01	ADVA Cast 575***	326-586 (5.0-9.0)	43836
GCP Applied Technologies	767-01	ADVA Cast 585***	130.4-652.0 (2.0-10.0)	43938
GCP Applied Technologies	767-01	ADVA Cast 600***	130-652 (5.0-10.0)	43923
Mapei	6354-02	Polychem 3000***	65.2-1304.0 (1.0-20.0)	43810
Mapei	6354-02	Polychem SPC***	130.4-1956.0 (2.0-20.0)	43933
RussTech Admixtures, Inc.	3988-01	Superflo 2000 RM***	456-1304 (7-20)	43803
Sika Corporation	2231-01	Viscocrete 2100***	326.0-782.4 (5.0-12.0)	43820
Sika Corporation	2231-01	Viscocrete 6100***	326.0-782.4 (5.0-12.0)	43809
Sika Corporation	2231-01	Viscocrete 4100***	326.0-782.4 (5.0-12.0)	43833

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>
Master Builders Solutions US	1254-01	MasterGlenium 3400***	319-782 (6-12)	43817
		MasterMatrix VMA 362**	391-782 (6-14)	43818
Master Builders Solutions US	1254-01	MasterGlenium 1466***	260.8-652.0 (4-10)	43828
		MasterMatrix VMA 362**	391-782 (6-14)	43818
Master Builders Solutions US	1254-01	MasterGlenium 7700***	260-975 (4-15)	43894
		MasterMatrix VMA 362**	391-782 (6-14)	43818
Master Builders Solutions US	1254-01	MasterGlenium 7511***	326.0-978.0 (5.0-15.0)	43915
		MasterMatrix VMA 362**	391-782 (6-14)	43818
Master Builders Solutions US	1254-01	MasterGlenium 7920***	130.4-782.4 (2.0-12.0)	43947
		MasterMatrix VMA 362**	391-782 (6-14)	43818

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

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>
Master Builders Solutions US	1254-01	MasterMatrix 33	130-780 (2-12)	43878
Master Builders Solutions US	1254-01	Master X-Seed 55	261-978 (4-15)	43965

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

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Submittal for Approval

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 Construction.

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,
- Safety Data Sheet and Supplemental Safety Information (SSI) if required,
- 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 (Form [BMPR 101](#)). If your company does not already have a product included on an IDOT QPL, please submit a signed copy of the Acknowledgement by Company form with your product submittal.

The submittal information shall be sent to:

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

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.

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Submittal for Approval, continued

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 2021 and due by mid-January of 2022. The recertification paperwork sets the ranges for the products to be made during the 2022 calendar year.