

South Carolina  
Department of Transportation  
Qualified Air Entraining and  
Chemical Admixtures for Concrete

PRODUCER	TRADE NAME	TYPE	CODE	RECOMMENDED DOSAGE RATE	NTPEP NUMBER	NOTE	
Axim Concrete Technologies P. O. Box 234 8282 Middlebranch Road Middlebranch, Ohio 44652 Nate Artman <a href="mailto:Nathaniel.artman@essroc.com">Nathaniel.artman@essroc.com</a> 330-966-0444 ext. 2021	Catexol AE 260	AEA	AEA	0.1 to 6	CADD(2009)-15		
	Catexol AE 360	AEA	AEA	0.1 to 6	CADD(2009)-16		
	Catexol 800N	A	WRA	2 to 6	CADD(2009)-12		
	Catexol 1000N	A	WRA	1.5 to 5	CADD(2009)-13		
	Catexol 3000GP	A	WRA/WRA-MR	2 to 20	CADD(2009)-21		
	Catexol 3500 N	A	WRA/WRA-MR	3 to 20	CADD(2009)-20		
	Catexol Hydrosense	A & F	WRA/WRA-HR	2 to 15	CADD(2009)-22		
	Superflux 2100 PC	A & F	WRA/WRA-HR	3 to 30	CADD(2009)-33		
	Catexol 2000Ni	A & G	WRA/WRAR-HR	3 to 24	CADD(2009)-19		
	Allegro 122	A & F	WRA/WRA-HR	4 to 30	CADD(2009)-26		
	Duraflux 33	A & F	WRA/WRA-HR	1 to 8	CADD(2009)-27		
	Duraflux 66	A & F	WRA/WRA-HR	1 to 8	CADD(2009)-30		
	Duraflux 77	A & F	WRA/WRA-HR	1 to 6	CADD(2009)-31		
	SuperFlux 2000 PC	A & F	WRA-WRA-HR	3 to 30	CADD(2009)-32		
	Catexol 2000 RHE	C & E	A/WRA-A	5 to 60	CADD(2009)-25		
	Catexol 1000R	D	WRA-R	1.5 to 4	CADD(2009)-14		
	Catexol 1000 SP-MN	F	WRA-HR	10 to 40	CADD(2009)-23		
	Euclid Chemical Company 19218 Redwood Road Cleveland Ohio 44110 1-216-692-8381 Attn. Christopher Balsat Email address: <a href="mailto:cbalsat@euclidchemical.com">cbalsat@euclidchemical.com</a>	Plastol 341	A & F	WRA/WRA-HR	2 to 10	CADD(2010)-02-040	
		Accelguard 80	C & E	A/WRA-A	12 to 90	CADD(2010)-01-024	
		Accelguard NCA	C & E	A/WRA-A	12 to 75	CADD(2010)-01-022	
Eucon Air 30		AEA	AEA	0.5 to 1	CADD(2010)-01-047	1	
Eucon Air 40		AEA	AEA	0.5 to 1	CADD(2010)-01-048	1	
Eucon LR		A	WRA	3 to 10	CADD(2010)-01-026		
Eucon LW		A	WRA	3 to 6	CADD(2010)-01-028		
Eucon NW		A	WRA	2 to 6	CADD(2010)-01-020		
Eucon NR		A & D	WRA/WRA-R	3 to 5	CADD(2010)-01-049		
Eucon SPC		A & F	WRA-WRA-HR	3 to 12	CADD(2010)-01-016	9	
Eucon SPJ		A & F	WRA/WRA-HR	4 to 7	CADD(2010)-01-015	9	
Eucon X15		A & F	WRA/WRA-HR	3 to 10	CADD(2010)-01-030		
Eucon X20		A & F	WRA/WRA-MR	3 to 15	CADD-2011-01-018		
Eucon AcN		C & E	A/WRA-A	20 to 60	CADD-2010-01-029	14	
Eucon AcN 200		C & E	A/WRA-A	10 to 60	CADD-2011-01-020	14	
Eucon LR		D	WRA-R	3 to 10	CADD(2010)-01-026		
Eucon TR		D	WRA-R	3 to 6	CADD-2011-01-021		
Eucon W.O.		D	WRA-R	4 to 16	CADD-2011-01-017		
Eucon SP		F	WRA-HR	12	CADD-2011-01-016	2 & 7	
Eucon RD-2		G	WRAR-HR	6 to 10	CADD-2011-01-014	2 & 7	
Euco Air-Mix		AEA	AEA	0.5 to 1	CADD-2011-01-012	1, 6	
Eucon AEA-92		AEA	AEA	0.5 to 1	CADD(2010)-01-021	1	
Eucon AEA 92S		AEA	AEA	0.5 to 2	CADD(2010)-01-034		
Euco Air-Mix 200		AEA	AEA	0.5 to 1	CADD(2008)-10	1	
Euco Air-Mix 250		AEA	AEA	0.75 to 1.5	CADD(2008)-11	1	
Eucon A+		A	WRA	3 to 8	CADD-2011-01-015		
Eucon Pro-Finish		A	WRA	3 to 10	CADD(2009)-01		
Eucon MR		A	WRA	4 to 10	CADD(2008)-13		
Eucon WR		A	WRA	4	CADD(2010)-01-027		
Eucon WR-75		A	WRA	2 to 3	CADD(2010)-01-014		
Eucon WR-91		A	WRA	3.5 to 6	CADD(2010)-01-031		
Eucon MRX		A & F	WRA/WRA-HR	3 to 12	CADD(2009)-02		
Eucon 37		A & F	WRA/WRA-HR	10 to 16	CADD(2010)-01-019	2	
Plastol Ultra 109		A & F	WRA/WRA-HR	2 to 12	CADD(2010)-02-043		
Plastol 341S		A & F	WRA/WRA-HR	2 to 10	CADD(2008)-16		
Plastol 6200 EXT		A & F	WRA/WRA-HR	3 to 12	CADD(2010)-01-046		
Euco Accelguard 80		C & E	A/WRA-A	16 to 32	CADD(2010)-01-024		
Eucon DS		D	WRA-R	4 to 16	CADD(2010)-01-050		
Eucon Retarder 75		D	WRA-R	3 to 5	CADD(2010)-01-017		
Eucon Retarder 100		D	WRA-R	2 to 6	CADD(2010)-01-045		
Eucon WR		D	WRA-R	12	CADD(2010)-01-027		
Eucon 1037		F	WRA-HR	6 to 25	CADD(2010)-01-018	2, 7	
Plastol 5000		F	WRA-HR	3 to 10	CADD-2011-01-022		
Plastol 5500		F	WRA-HR	3 to 8	CADD(2010)-01-023		

PRODUCER	TRADE NAME	TYPE	CODE	RECOMMENDED DOSAGE RATE	NTPEP NUMBER	NOTE
Euclid Chemical Company Cont.	Plastol 5700	A & F	WRA/WRA-HR	2 to 6	CADD(2010)-01-036	
	Plastol 6400	A & F	WRA/WRA-HR	3 to 12	CADD-2010-01-025	
	Plastol 6420	A & F	WRA/WRA-HR	2 to 10	CADD-2010-01-042	
W.R. Grace Construction Products Division 62 Whittemore Ave. Cambridge, MA 02140 Technical Services Support Denise White <a href="mailto:Denise.i.white@grace.com">Denise.i.white@grace.com</a> 617-498-4555	Daravair AT30	AEA	AEA	0.25 to 3	CADD(2008)-06	1
	Davavair 1000	AEA	AEA	0.75 to 3	CADD(2007)-04	1
	Darex AEA ED	AEA	AEA	0.50 to 5	CADD-2011-02-012	1
	Darex AEA	AEA	AEA	0.50 to 3	CADD(2009)-42	1
	Darex II AEA	AEA	AEA	0.50 to 5	CADD(2007)-03	1
	Daracem 50	A	WRA	3 to 9	CADD-2010-01-044	
	Daracem 65	A	WRA	3 to 9	CADD(2007)-08-05	
	WRDA 82	A	WRA	3 to 6	CADD(2009)-045	
	WRDA w/HYCOL	A	WRA	3 to 6	CADD(2008)-23	
	Zyla 610	A	WRA	3 to 5	CADD-2011-01-002	
	Zyla 620	A	WRA	2 to 4	CADD-2010-01-032	
	WRDA 35	A & D	WRA/WRA-R	2 to 8	CADD(2009)-44	
	WRDA 64	A & D	WRA/WRA-R	3 to 6	CADD-2011-01-001	
	WRDA Pave 17	A & D	WRA/WRA-R	3 to 10	CADD-2011-01-011	
	WRDA Pave 18	A & D	WRA/WRA-R	3 to 5	CADD-2011-01-009	
	Mira 62	A & F	WRA/WRA-HR	2 to 15	CADD(2009)-06	
	Mira 85	A & F	WRA/WRA-HR	3 to 12	CADD(2009)-43	15
	Mira Pave 11	A & F	WRA/WRA-HR	6 to 15	CADD-2011-01-007	
	Daraset 200	C	A	10 to 60	CADD(2009)-41	2 & 7
	Daraset Pave 20	C	A	10 to 60	CADD-2011-01-005	
	Polarset	C	A	8 to 50	CADD(2007)-08-01	
	Daratard 17	D	WRA-R	2 to 8	CADD(2007)-05	
	Recover	D	WRA-R	5	CADD(007)-08-03	
	Daracel	E	WRA-A	8 to 40	CADD(2009)-40	13
	Lubricon NCA	E	WRA-A	27 to 64	CADD(2007)-08-03	
	ADVA 120	F	WRA-HR	3 to 10	CADD-2010-01-037	
	ADVA 170	F	WRA-HR	3 to 9	CADD(2007)-08-06	
	ADVA 190	F	WRA-HR	3 to 9	CADD(2007)-01	
	ADVA 195	A & F	WRA-HR	3 to 15	CADD 2010-01-043	
	ADVA 140M	A & F	WRA/WRA-HR	9 to 16	CADD(2007)-06	
ADVA 405	A & F	WRA/WRA-HR	4 to 18	C ADD(2009)-07		
ADVA Cast 530	F	WRA-HR	3 to 10	CADD(2009)-10		
ADVA Cast 575	F	WRA-HR	2 to 10	CADD(2007)-02		
ADVA Cast 555	F	WRA-HR	6 to 20	CADD(2008)-08		
ADVA Flex	F	WRA-HR	4 to 14	CADD-2010-01-038		
EXP 950	F	WRA-HR	2 to 10	CADD(2007)-08-07		
Daracem 100	G	WRAR-HR	12 to 15	CADD-2010-02-026		
Hunt Process Corp. South P. O. Box 688 Ridgeland, Mississippi 39158	Air-In XT	AEA	AEA	0.50	CADD-2010-02-031	1,6
	HPS-R	A & D	WRA/WRA-R	4 to 8	CADD-2010-02-033	
BASF Admixtures, Inc. 23700 Chagrin Blvd. Cleveland, Ohio 44122 Attn: Mark Piechuta	Everair Plus	AEA	AEA	0.25 to 4	CADD-2011-02-014	1
	MBAE 90	AEA	AEA	0.25 to 4	CADD-2011-01-035	1
	MBVR Standard	AEA	AEA	0.25 to 4	CADD(2008)-17	1, 6
	Micro-Air	AEA	AEA	0.125 to 4	CADD-2011-01-036	1
	Pave-Air	AEA	AEA	0.25 to 4	CADD(2008)-17	1,6
	Pave Air 90	AEA	AEA	0.25 to 4	CADD 06-11	1
	PolyHeed 900	A	WRA	3 to 15	CADD(2008)-21	
	PolyHeed N	A	WRA	4 to 9	CADD(2010)-01-012	
	Pozzololith 200N	A	WRA	3 to 5	CADD-2011-01-039	
	Pozzololith 322N	A	WRA	4 to 7	CADD(2010)-01-008	
	Masterpave	A & D	WRA/WRA-R	5 to 10	CADD(2010)-01-005	
	Pozzololith 80	A & D	WRA/WRA-R	5 to 10	CADD(2010)-01-005	
	Pozzololith 220N	A & D	WRA/WRA-R	2 to 5	CADD-2011-01-039	
	Glenium 3030 NS	A & F	WRA/WRA-HR	10 to 25	CADD-2011-01-033	
	Glenium 3400NV	A & F	WRA/WRA-HR	2 to 12	CADD-2011-01-034	
	Glenium 7500	A & F	WRA/WRA-HR	5 to 8	CADD(2007)08-11	
	PolyHeed 997	A & F	WRA/WRA-HR	5 to 15	CADD-2011-02-005	
	PolyHeed 1020	A & F	WRA/WRA-HR	3 to 12	CADD(2010)-02-002	15
	PolyHeed 1025	A & F	WRA/WRA-HR	3 to 13	CADD(2010)-02-003	15
	PS-1466	A & F	WRA/WRA-HR	2 to 10	CADD-2011-01-040	
	Pozzololith NC 534	C	A	10 to 45	CADD-2011-02-006	

PRODUCER	TRADE NAME	TYPE	CODE	RECOMMENDED DOSAGE RATE	NTPEP NUMBER	NOTE	
BASF Admixtures, Inc. cont.	Pozzutec 20+	C & E	AWRA-A	5 to 60	CADD-2011-02-013		
	Pozzolith 122 HE	C & E	AWRA-A	16 to 64	CADD(2010)-01-006		
	Delvo Stabilizer	D	WRA-R	1 to 20	CADD(2008)-18	12	
	Pozzolith 100-XR/Masterpave RI	D	WRA-R	1 to 5	CADD-2011-01-038		
	Pozzolith 122R/Pozzolith 961R	D	WRA-R	3 to 5	CADD(2010)-02-015		
	Pozzolith 300R	D	WRA-R	3 to 5	CADD(2010)-01-007		
	Glenium 7101	F	WRA-HR	3 to 12	CADD(2007)-08-13		
	Glenium 7700	F	WRA-HR	4 to 15	CADD(2007)-08-12		
	Glenium 7710	F	WRA-HR	2 to 15	CADD(2009)-11		
	Rheobuild 1000	F	WRA-HR	15	CADD-2011-02-007		
Sika Corporation 201 Polito Ave. Lyndhurst, New Jersey 07071 201-933-8800	Sika AEA 14	AEA	AEA	1 to 3	CADD(2006)-08-7		
	Sika Air	AEA	AEA	0.50 to 3	CADD 06-04		
	Plastocrete 161	A & D	WRA/WRA-R	2 to 6	CADD 06-07		
	Sikament 686	A & F	WRA/WRA-HR	3 to 12	CADD(2006)-08-3		
	Sikament AFM	A & F	WRA/WRA-HR	5 to 12	CADD(2006)-08-2		
	Sika ViscoCrete 2100	A & F	WRA/WRA-HR	2 to 6	CADD 06-05		
	Sika ViscoCrete 4100	A & F	WRA/WRA-HR	3 to 8	CADD(2008)-03		
	Sika ViscoCrete 6100	A & F	WRA/WRA-HR	3 to 8	CADD(2006)-08-8		
	Sikaplast 500	A & F	WRA/WRA-HR	3 to 18	CADD(2008)-20		
	Sika Rapid 1	C	A	8 to 48	CADD(2006)-08-4		
	SikaSet NC	C & E	AWRA-A	10 to 45	CADD 06-08		
	Plastiment	D	WRA-R	2 to 6	CADD 06-06		
	Plastiment ES	D	WRA-R	2 to 4	CADD(2010)01-003		
	Chryso, Inc 1611 Hwy 278 Rockwell, TX 75032 Attn: Brian Breitzman 972-772-6010 ext. 203 Cell 214-458-1053	Air R2	AEA	AEA	0.50 to 4	CADD(2010)-01-061	
Chryso Air 260		AEA	AEA	0.20 to 3	CADD(2010)-01-052		
Chryso EnviroMix 159		A	WRA	3 to 12	CADD(2010)-01-053		
Chryso EnviroMix 300		A	WRA	3 to 12	CADD(2010)-01-066		
Chryso EnviroMix 340		A	WRA	4 to 14	CADD(2010)-01-064		
Chryso EnviroMix 728		A	WRA	5 to 18	CADD(2010)-01-058		
Plast 209		A	WRA	3 to 8	CADD-2011-01-027		
Fluid Premia 180		A & F	WRA/WRA-HR	3 to 8	CADD(2010)-01-062		
Plast P150		A & D	WRA/WRA-R	3 to 8	CADD-2011-01-029		
Fluid Premia 196		A & F	WRA/WRA-HR	5 to 20	CADD(2010)-01-067		
Chryso TurboCast 701		C	A	10 to 90	CADD-2011-01-025		
Chryso TurboCast 650A		C	A	7.5 to 54	CADD(2010)-01-063		
Chryso TurboCast NCT		C	A	7.5 to 54	CADD-2011-01-024		
Chryso Tard 100R		D	WRA-R	2 to 8	CADD-2011-01-028		
Chryso Fluid Propel AG		A & F	WRA/WRA-HR	3 to 16	CADD-2011-01-032	2, 7	
Chryso Fluid Premia 203		A, F & G	WRA/WRA-HR	3 to 20	CADD(2010)-01060		
Chryso Fluid Optima 256		F	WRA-HR	7 to 16	CADD(2010)-01-051		
Goulston Technologies, Inc. P. O. Box 5025 Monroe, NC 28110 John Howell 706-614-3052 jhowell@goulston.com		Chupol FA-10G	AEA	AEA	0.5 to 2	CADD-2010-02-018	
		Chupol AE-200G	AEA	AEA	0.5 to 2	CADD-2010-02-019	
	Chupol N20	A & D	WRA/WRA-R	3 to 8	CADD-2010-02-012		
	Chupol N60	A & F	WRA/WRA-HR	2 to 9	CADD-2010-02-008		
	Chupol NCA Plus	C & E	AWRA-A	16 to 90	CADD-2010-02-001		
	Chupol N30	D	WRA-R	3 to 6	CADD-2010-02-011		
	Chupol N40	D	WRA-R	1 to 12	CADD-2010-02-010		
	Chupol N50	D	WRA-R	3 to 9	CADD-2010-02-009		
	Chupol P-500	F	WRA-HR	3 to 9	CADD-2010-02-007		
	Chupol P-530	F	WRA-HR	3 to 9	CADD-2010-02-006		

Type	Code	Description
Type A	WRA	Normal Water Reducer
Type C	A	Accelerator
Type D	WRA-R	Water Reducer Retarder
Type E	WRA-A	Water Reducer Accelerator
Type F	WRA-HR	High Range Water Reducer
Type G	WRAR-HR	High Range Water Reducer Retarder

#### NOTES

Dosage rates refer to either one bag or 100 lbs of cementitious material

All dosages shown are producer's recommended dosage rates.

Note 1: Adjustment should be made in the recommended dosage rates to obtain the desired amount of entrained air (4.5% +- 1.5%).  
The amount required must be determined by test.

Note 2: This agent may be used with a Type A or Type D admixture if approved by the producer, at a rate to obtain the desired concrete workability and slump. Also, it may be added a second or third time to return the concrete to a workable slump.

Note 3: Normally as an air entraining agent, only a neutralized vinsol resin should be used with this product.

Note 4: 2oz/100 lbs below 65 degrees Fahrenheit, 3oz/100 lbs 65 degrees Fahrenheit to 85 degrees Fahrenheit, 4oz/100 lbs above 85 degrees Fahrenheit.

Note 5: This is a dry weight and not a liquid measurement and is non-chloride.

Note 6: This is a known neutralized vinsol resin.

Note 7: This agent may be re-dosed twice. The amount may be varied to get the desired results.

Note 8: This agent may be used with Type C or E admixture, if approved by the manufacturer.

Note 9: The agent to be remixed after long storage periods.

Note 10: Shelf life is one year.

Note 11: Shelf life is nine months.

Note 12: Approved by Policy 32 as a Mixer Wash Water Stabilizer.

Note 13: This product contains calcium chloride.

Note 14: Where water reduction is not required, less amounts may be used to aid in acceleration as required for job situations.

Note 15: Mid range Water Reducer.

SCDOT CONTACT PERSON: Aly A. Hussein, PhD., P.E.  
Structural Materials Engineer  
South Carolina Department of Transportation  
P. O. Box 191  
Columbia, SC 29202  
Telephone (803) 737-6687  
Fax (803) 737-6649  
email; [husseinaa@scdot.org](mailto:husseinaa@scdot.org)