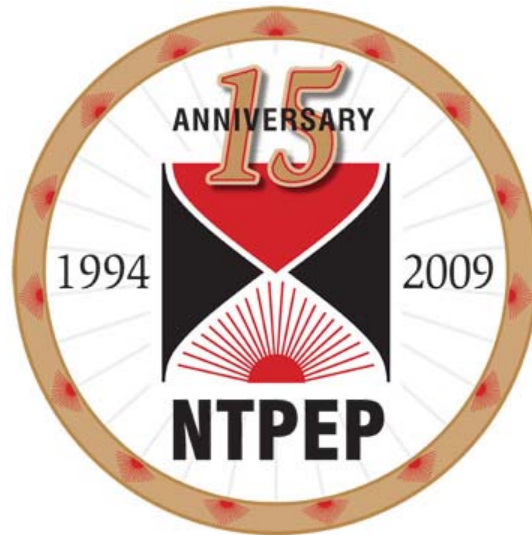


2010 NTPEP Report Series

NTPEP Report 13005.1



LABORATORY TESTING OF CONCRETE ADMIXTURES
FINAL REPORT

(SPRING 2009 PRODUCT SUBMISSIONS)



January 2010

American Association of State Highway and Transportation Officials (AASHTO)

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PROLOGUE

General Facts about NTPEP Reports

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- ❖ Products are voluntarily submitted by manufacturers for testing by NTPEP. Testing fees are assessed from manufacturers to reimburse AASHTO member departments for conducting testing and to report results. AASHTO member departments provide a voluntary yearly contribution to support the administrative functions of NTPEP.
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NTPEP Report Special Advisory for Concrete Admixtures (CADD)

- ❖ For transportation agencies who desire to have *Liquid Chemical Admixtures for Concrete* periodically resubmitted for NTPEP evaluation, the CADD Technical Committee recommends a retest period of 5 years.
- ❖ The User is urged to establish QC/QA protocols for project-level acceptance of products. This NTPEP report is useful only for expediting product prequalification and does not take the place of a managed QC/QA program.
- ❖ For specific questions regarding this NTPEP Report or for advice on how to implement NTPEP data furnished in this Report the User is encouraged to contact the NTPEP Coordinator at (202) 624-7830.

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2010 NTPEP Report Series

**National Transportation Product
Evaluation Program (NTPEP)**

NTPEP Report 13005.1

Report of

LABORATORY TESTING OF CONCRETE ADMIXTURES

(SPRING 2009 PRODUCT SUBMISSIONS)

Report by:

Missouri Department of Transportation

Testing by:

Minnesota Department of Transportation



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Introduction

The National Transportation Product Evaluation Program (NTPEP) was developed in order to evaluate a variety of traffic, construction, and maintenance products. This report provides information on the evaluation of concrete admixtures submitted by manufactures in the Spring of 2009.

Objective

The objective of NTPEP is to combine and focus the resources of the participating NTPEP member departments in the evaluation of material of common interest in order to improve cost-effectiveness. This report provides the NTPEP member departments the necessary information to evaluate concrete admixtures without the investment of their time and manpower for testing. In keeping with NTPEP philosophy of purely testing materials, no conclusions are given in this report. Each member department may utilize the data in this report at their discretion. Minnesota Department of Transportation (Mn/DOT) conducted the laboratory testing.

Scope

This report contains the laboratory test results and data accumulated during the NTPEP Test Facility's study of concrete admixtures submitted in the spring of 2009.

Background

The concrete admixture manufacturers submitted Product Evaluation Forms (PEF) to the NTPEP Coordinator. The NTPEP Coordinator assigned each material a number (CADD 2009-xx). The PEF's were forwarded to Mn/DOT where the testing was conducted on the submitted products.

Concrete Admixtures Submitted

NTPEP Number	Manufacturer	Product Name
CADD (2009)-01	Euclid	Eucon Pro-Finish
CADD (2009)-02	Euclid	Eucon MRX
CADD (2009)-03	Euclid	Plastol 6000
CADD (2009)-04	Euclid	Plastol 6200EXT
CADD (2009)-05	W.R. Grace	MIRA 110
CADD (2009)-06	W.R. Grace	MIRA 62
CADD (2009)-07	W.R. Grace	ADVA 405
CADD (2009)-08	W.R. Grace	ADVA 408
CADD (2009)-09	W.R. Grace	DARASET HES
CADD (2009)-10	W.R. Grace	ADVA CAST 530
CADD (2009)-11	BASF	Glenium 7710
CADD (2009)-12	AXIM	Catexol 800N
CADD (2009)-13	AXIM	Catexol 1000N
CADD (2009)-14	AXIM	Catexol 1000R
CADD (2009)-15	AXIM	Catexol AE 260
CADD (2009)-16	AXIM	Catexol AE 360
CADD (2009)-17	AXIM	Stop Set L
CADD (2009)-18	AXIM	Catexol VRC
CADD (2009)-19	AXIM	Catexol 2000Ni
CADD (2009)-20	AXIM	Catexol 3500N
CADD (2009)-21	AXIM	Catexol 3000GP
CADD (2009)-22	AXIM	Catexol Hydrosense
CADD (2009)-23	AXIM	Catexol 1000SP-MN
CADD (2009)-24	AXIM	Catexol 1000SP-MN-C
CADD (2009)-25	AXIM	Catexol 2000RHE
CADD (2009)-26	AXIM	Allegro 122
CADD (2009)-27	AXIM	Duraflux 33
CADD (2009)-28	AXIM	Duraflux 44
CADD (2009)-29	AXIM	Duraflux 55
CADD (2009)-30	AXIM	Duraflux 66
CADD (2009)-31	AXIM	Duraflux 77
CADD (2009)-32	AXIM	Superflux 2000PC
CADD (2009)-33	AXIM	Superflux 2100PC
CADD (2009)-34	AXIM	Catexol Megapact
CADD (2009)-35	AXIM	2000 SCA
CADD (2009)-36	AXIM	2200 SCA
CADD (2009)-37	AXIM	CN-CL
CADD (2009)-38	AXIM	Collaxim L7

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Cambridge, Ma 02140

Manufacturer Data

Data supplied by manufacture at time of submittal is listed in Table 1 on Page 4 and 5.

NTPEP Test Data

Data compiled by testing state is listed in a Table 2 on Page 6 and 7.

The percent solids were determined for all products by AASHTO M-194 or AASHTO M-154.

Table 1: Manufacturer's Data

PRODUCT NAME	NTPEP #	MFG	Sp Grav @ 25C Range	% Solids Range (M-194)	pH Range	Chloride % by wt
Eucon Pro-Finish	CADD (2009) - 01	Euclid	1.162 to 1.198	35.20 to 44.80	5.0 to 7.0	0.06
Eucon MRX	CADD (2009) - 02	Euclid	1.108 to 1.132	26.84 to 34.16	5.0 to 7.0	0.06
Plastol 6000	CADD (2009) - 03	Euclid	1.090 to 1.110	35.29 to 44.91	5.0 to 8.0	0.06
Plastol 6200EXT	CADD (2009) - 04	Euclid	1.07 to 1.085	37.60 to 42.40	4.5 to 7.5	0.06
MIRA 110	CADD (2009) - 05	W.R. Grace	1.035 to 1.075	15.50 to 19.70	6.0 to 9.0	0.05
MIRA 62	CADD (2009) - 06	W.R. Grace	1.040 to 1.080	15.80 to 20.10	3.5 to 6.5	0.05
ADVA 405	CADD (2009) - 07	W.R. Grace	1.000 to 1.100	17.10 to 21.70	3.5 to 6.5	0.05
ADVA 408	CADD (2009) - 08	W.R. Grace	1.025 to 1.055	17.00 to 22.00	3.5 to 6.5	0.05
DARASET HES	CADD (2009) - 09	W.R. Grace	1.21 to 1.260	33.00 to 42.00	7.0 to 11.0	0.05
ADVA CAST 530	CADD (2009) - 10	W.R. Grace	1.04 to 1.100	28.20 to 35.80	4.0 to 7.0	0.05
Glenium 7710	CADD (2009) - 11	BASF	1.042 to 1.058	22.60 to 27.60	4.8 to 5.8	<0.15
Catexol 800N	CADD (2009) - 12	Axim	1.189 to 1.231	36.96 to 47.04	8.5 to 10.5	0.0079
Catexol 1000N	CADD (2009) - 13	Axim	1.195 to 1.235	42.24 to 53.76	6.0 to 10.0	0.0481
Catexol 1000R	CADD (2009) - 14	Axim	1.189 to 1.231	40.48 to 51.52	8.0 to 10.0	0.0506
Catexol AE 260	CADD (2009) - 15	Axim	0.997 to 1.027	9.24 to 11.76	10.5 to 12.5	0.0195
Catexol AE 360	CADD (2009) - 16	Axim	1.005 to 1.015	6.16 to 7.84	7.0 to 9.0	0.0281
Stop Set L	CADD (2009) - 17	Axim	1.085 to 1.115	22.00 to 26.00	2.0 to 3.0	0.0098
Catexol VRC	CADD (2009) - 18	Axim	1.05 to 1.07	17.60 to 22.40	11.0 to 13.0	0.0184
Catexol 2000Ni	CADD (2009) - 19	Axim	1.252 to 1.308	38.02 to 48.38	8.5 to 12.5	0.0291

Table 1: Manufacturer's Data (continued)

PRODUCT NAME	NTPEP #	MFG	Sp Grav @ 25C Range	% Solids Range (M-194)	pH Range	Chloride % by wt
Catexol 3500N	CADD (2009) - 20	Axim	1.279 to 1.341	35.20 to 44.80	4.5 to 7.5	0.0055
Catexol 3000GP	CADD (2009) - 21	Axim	1.070 to 1.090	16.72 to 21.28	4.0 to 6.0	0.0231
Catexol Hydrosense	CADD (2009) - 22	Axim	1.171 to 1.209	26.40 to 33.60	7.0 to 10.0	0.0064
Catexol 1000SP-MN	CADD (2009) - 23	Axim	1.171 to 1.209	35.20 to 44.80	9.0 to 11.0	0.0058
Catexol 1000SP-MN-C	CADD (2009) - 24	Axim	1.180 to 1.220	35.20 to 44.80	8.5 to 10.5	0.0059
Catexol 2000RHE	CADD (2009) - 25	Axim	1.369 to 1.451	47.96 to 61.04	6.5 to 8.5	0.0114
Allegro 122	CADD (2009) - 26	Axim	1.040 to 1.060	19.36 to 24.64	3.0 to 5.0	0.0051
Duraflux 33	CADD (2009) - 27	Axim	1.040 to 1.060	17.60 to 22.40	3.0 to 5.0	0.0051
Duraflux 44	CADD (2009) - 28	Axim	1.080 to 1.132	30.80 to 39.20	6.3 to 8.3	0.0499
Duraflux 55	CADD (2009) - 29	Axim	Not Submitted			
Duraflux 66	CADD (2009) - 30	Axim	1.040 to 1.060	18.04 to 22.96	2.3 to 5.3	0.0129
Duraflux 77	CADD (2009) - 31	Axim	1.070 to 1.090	26.40 to 33.60	2.5 to 5.5	0.011
Superflux 2000PC	CADD (2009) - 32	Axim	1.080 to 1.100	37.50 to 42.50	6.0 to 8.0	0.0048
Superflux 2100PC	CADD (2009) - 33	Axim	1.070 to 1.090	35.50 to 41.50	6.0 to 8.0	0.0191
Catexol Megapact	CADD (2009) - 34	Axim	1.195 to 1.235	42.24 to 53.76	6.0 to 10.0	0.0481
2000 SCA	CADD (2009) - 35	Axim	1.108 to 1.132	44.00 to 56.00	5.0 to 9.0	0.0205
2200 SCA	CADD (2009) - 36	Axim	1.000 to 1.020	94.00 to 100.00	4.5 to 8.5	Trace
CN-CL	CADD (2009) - 37	Axim	1.257 to 1.313	27.78 to 34.72	7.5 to 10.5	0.0045
Collaxim L7	CADD (2009) - 38	Axim	1.050 to 1.070	13.64 to 17.36	6.5 to 9.5	0.029

Table 2: NTPEP Test Data

PRODUCT NAME	NTPEP #	MFG	pH	Sp. Grav @ 25C	Wt Bottle Sand & Cap	Wt with Admixture	Wt After Drying	M-194 % Solids	M-154 % Solids
Eucon Pro-Finish	CADD (2009) - 01	Euclid	5.58	1.183	92.0344	96.1391	93.6688	39.82	
Eucon MRX	CADD (2009) - 02	Euclid	5.52	1.125	89.0339	92.9994	90.3156	32.32	
Plastol 6000	CADD (2009) - 03	Euclid	5.67	1.082	89.9299	93.6295	91.3968	39.65	
Plastol 6200EXT	CADD (2009) - 04	Euclid	5.63	1.087	87.5043	91.5704	89.0852	38.88	
MIRA 110	CADD (2009) - 05	W.R. Grace	7.92	1.055	92.0240	96.0712	92.7526	18.00	
MIRA 62	CADD (2009) - 06	W.R. Grace	5.00	1.068	89.0558	93.2474	89.8349	18.59	
ADVA 405	CADD (2009) - 07	W.R. Grace	4.79	1.068	89.9542	93.7947	90.7319	20.25	
ADVA 408	CADD (2009) - 08	W.R. Grace	4.80	1.041	87.5185	91.3240	88.2810	20.04	
DARASET HES	CADD (2009) - 09	W.R. Grace	9.32	1.252	88.9835	94.0466	90.8956	37.77	
ADVA CAST 530	CADD (2009) - 10	W.R. Grace	5.95	1.070	88.0174	91.7231	89.2272	32.65	
Glenium 7710	CADD (2009) - 11	BASF	5.23	1.052	92.0233	95.7869	92.9822	25.48	
Catexol 800N	CADD (2009) - 12	Axim	8.56	1.214	88.9573	93.5369	90.8752	41.88	
Catexol 1000N	CADD (2009) - 13	Axim	6.24	1.204	88.0362	92.8146	90.1192	43.59	
Catexol 1000R	CADD (2009) - 14	Axim	8.68	1.207	92.0155	96.5770	94.0642	44.91	
Catexol AE 260	CADD (2009) - 15	Axim	11.51	1.009	92.0313	95.6595	92.4326	11.06	
Catexol AE 260 (M-154)					1.2578	2.2836	1.3718		11.11
Catexol AE 360	CADD (2009) - 16	Axim	7.88	1.011	89.0736	93.0895	89.3806	7.64	
Catexol AE 360 (M-154)					1.2594	2.2287	1.3335		7.64
Stop Set L	CADD (2009) - 17	Axim	2.05	1.110	89.0397	93.4615	90.1009	24.00	
Catexol VRC	CADD (2009) - 18	Axim	11.42	1.051	89.9506	94.0862	90.7247	18.72	
Catexol VRC (M-154)					1.2624	2.3413	1.4633		18.62

% Solids were determined for all non air-entraining products by AASHTO M-194

Table 2: NTPEP Test Data (continued)

PRODUCT NAME	NTPEP #	MFG	pH	Sp. Grav @ 25C	Wt Bottle Sand & Cap	Wt with Admixture	Wt After Drying	M-194 % Solids	M-154 % Solids
Catexol 2000Ni	CADD (2009) - 19	Axim	8.52	1.293	87.5020	92.5960	89.7873	44.86	
Catexol 3500N	CADD (2009) - 20	Axim	5.37	1.310	89.9852	95.3941	92.1253	39.57	
Catexol 3000GP	CADD (2009) - 21	Axim	4.60	1.074	87.5410	91.5723	88.2464	17.50	
Catexol Hydrosense	CADD (2009) - 22	Axim	9.32	1.201	88.9849	93.6185	90.4591	31.82	
Catexol 1000SP-MN	CADD (2009) - 23	Axim	9.61	1.197	88.0250	92.4850	89.7722	39.17	
Catexol 1000SP-MN-C	CADD (2009) - 24	Axim	8.88	1.200	92.0761	96.5866	93.8544	39.43	
Catexol 2000RHE	CADD (2009) - 25	Axim	7.04	1.401	89.0583	94.5646	91.7806	49.44	
Allegro 122	CADD (2009) - 26	Axim	3.48	1.044	88.9766	92.9010	89.8146	21.35	
Duraflux 33	CADD (2009) - 27	Axim	3.34	1.042	89.9292	93.8477	90.7188	20.15	
Duraflux 44	CADD (2009) - 28	Axim	6.46	1.130	87.5137	91.8168	89.0180	34.96	
Duraflux 66	CADD (2009) - 30	Axim	3.01	1.051	88.9723	93.1286	89.8231	20.47	
Duraflux 77	CADD (2009) - 31	Axim	3.68	1.079	88.0215	92.0334	89.1688	28.60	
Superflux 2000PC	CADD (2009) - 32	Axim	6.11	1.090	92.0027	96.0672	93.6328	40.11	
Superflux 2100PC	CADD (2009) - 33	Axim	6.10	1.085	89.0841	92.7787	90.5310	39.16	
Catexol Megapact	CADD (2009) - 34	Axim	6.22	1.203	89.9438	94.5636	91.9619	43.68	
2000 SCA	CADD (2009) - 35	Axim	5.12	1.127	88.0387	92.3214	89.6340	37.25	
2200 SCA	CADD (2009) - 36	Axim	4.61	1.018	87.5533	91.0861	87.6665	3.20	
CN-CL	CADD (2009) - 37	Axim	8.35	1.291	88.9960	94.1704	90.7345	33.60	
Collaxim L7	CADD (2009) - 38	Axim	7.39	*	88.0230	91.2788	88.5026	14.73	

% Solids were determined for all non air-entraining products by AASHTO M-194

***pH measured on a 1:20 dilution of submitted product.**

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“The National Transportation Product Evaluation Program (NTPEP) was established by the American Association of State Highway and Transportation Officials (AASHTO) in early 1994. The program pools the professional and physical resources of the AASHTO member departments in order to test materials, products and devices of common interest. The primary goals of the program are to provide cost-effective evaluations for the states by eliminating duplication of routine testing by the states; and to reduce duplication of effort by the manufacturers who produce and market commonly used proprietary, engineered products.” 

-- Rick Smutzer (IN), former NTPEP Chairman



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