

TEST REPORT

ADOADDITIVES TECHNOLOGIES PVT.LTD.
D-1,ACHARYA NIKETAN
MAYUR VIHAR,PHASE-1
DELHI-110091, DELHI
INDIA

Phone/Fax:
Kind Attn.: MR VINAY UPADHYAY

Report No.: 160920088-1

Date: 26-Oct-2016

Sample Description :

DOR: 20-Sep-2016

ADMIXTURE AT-CARPOL 380 (S) BATCH NO-AT/PL/689 M/S GULERMAK-TPL
V LUCKNOW METRO RAIL PROJECTS-LKCC-06 LUCKNOW

Your Ref. No. :

ID- 160920088-1

Page:- 1 of 2

Date of Start of testing:- 21.09.2016

ADMIXTURE

Date of Completion of testing:- 25.10.2016

S. No	Test parameters	Observed Value	Test Method	Requirements as per IS: 9103-1999 Superplasticizing Admixture [Retarding Type]	Conformity
1.	Water Content, % of control sample	73.0	IS: 1199-1959/R-2008	80 max.	Yes
2.	Time of setting, Hours Allowable Deviation from control Sample		IS:8142-1976		
	A.Initial	2.94		+ 4 Max. + 1 Min.	Yes
	B.Final	1.86		+ 3 Max.	Yes
3.	Compressive Strength, % of control Sample		IS: 516-1959/R-2011		
	A. 3 days	132.0		125 Min.	Yes
	B. 7 days	133.0		125 Min.	Yes
	C. 28 days	129.0		115 Min.	Yes
4.	Flexural Strength, % of control Sample		IS: 516-1959/R-2011		
	A. 3 days	114.0		110 Min.	Yes
	B. 7 days	112.0		100 Min.	Yes
	C. 28 days	110.0		100 Min.	Yes
5.	Bleeding, % increase over Control Sample	1.70	IS:9103-1999/Annex-D	5 Max.	Yes
6.	Air content, % over control Sample	0.68	IS: 1199-1959/R-2008	1.5 Max.	Yes
7.	Length change, % increase over control sample, Max. At 28 Days	0.005	IS: 1199-1959/R-2008	0.010 Max.	Yes

Contd..

Vinay
Analyst

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[Signature]
Authorised Signatory

TRA - 266096

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Page:- 2 of 2

Date of Start of testing:- 21.09.2016

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ADMIXTURE
As per Table 1B of IS:9103-1999

S.No.	Test Parameters	Observed Value	Test Method	Requirements as per IS:1903-1999 Superplasticizing Admixture [Retarding Type]	Conformity
1.	Flow, mm	590	IS:9103-1999/ Annex-C	510 - 620 mm	Yes
2.	Loss of workability on Standing	Passes the test	IS: 1199-1959/R-2008	at 2 hr, the slump shall be not less then that of control mix concrete at 15 minutes	Yes
3.	Minimum Compressive Strength 5 of control mix Concrete A. 7 days B. 28 days	97.0 94.0	IS:516-1959/R-2011	90 Min. 90 Min.	Yes Yes

-----End Of Test Report-----

Analyst

CCREQD11\RA000\IA8050



Authorized Signatory

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Admixture
As per table 2 of IS: 9103-1999

S.No	Test Parameters	Observed Value	Test Method	Requirements as per IS: 9103-1999	Conformity
1.	Dry material Content, % by mass	42.54	IS:9103-1999/Annex-E	41.42 ± 5 %	Yes
2.	Ash Content, % by mass	2.65	IS:9103-1999/Annex-E	2.78 ± 5 %	Yes
3.	Relative density	1.113	IS:9103-1999/Annex-E	1.115 ± 0.02	Yes
4.	Chloride as Cl, % by mass	0.016	IS:9103-1999/Annex-E	0.2 Max.	Yes
5.	pH value at 25 ^o c	6.24	IS:9103-1999/Annex-E	6.0 MIN	Yes

-----END OF TEST REPORT-----

Vinay
Analyst

CCREQD11RA0001A8050



Vinay
Analyst
Authorised Signatory

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