



Request no : DS1C1378
Client : Axion Africa
Dei-Dei International Building
Material, Market Abuja.
Opposite Panteka

Project : DANGOTE FERTILIZER TO ELEKO JUNCTION

Date reported : 10-05-2024

Attention : **Axion Africa**

Compressive Strength of Concrete Cubes [TMH1 - D1, D3, ASTM C293]

Date Received :	05-04-2024	Structure / Element :	CRCP
Date in Water :	06-04-2024	Location :	CH 15+831 - 16+029 LHS
Cubes Made By :		Concrete Supplier :	ITB BATCH PLANT
Cubes Tested By :		Delivery Note No :	WB 7444
Specified Strength (MPa) :	C35	Truck Reg. Number :	TTV 32
Specified Slump :	60 mm	Environmental Condition :	SUNNY AND HOT
Measured Slump :	65 mm	Curing Tank Temp :	26 °C
Engineer's Specification :		Press Serial No :	
Balance Number :		Correction Factor	1.000

3 Day Compressive Strength

Lab Number	Cube Mark	Date Cast	Date Tested	Age Days	Break Pattern	Flatness	Mass	Apparent Density	Dimension		Load	Compressive Strength
									Length	Width		
A	1	05-04-2024	08-04-2024	3	A		8144	2413	150.00	150.00	535	23.8
B	2	05-04-2024	08-04-2024	3	A		8185	2425	150.00	150.00	607	27.0
Average									150.00	150.00	571 kN	25.0 MPa
Standard Deviation									0.0	0.0	50.8	2.3

7 Day Compressive Strength

Lab Number	Cube Mark	Date Cast	Date Tested	Age Days	Break Pattern	Flatness	Mass	Apparent Density	Dimension		Load	Compressive Strength
									Length	Width		
C	3	05-04-2024	12-04-2024	7	A		8172	2421	150.00	150.00	724	32.2
D	4	05-04-2024	12-04-2024	7	A		8159	2417	150.00	150.00	699	31.1
E	5	05-04-2024	12-04-2024	7	A		8193	2428	150.00	150.00	686	30.5
Average									150.00	150.00	703 kN	31.0 MPa
Standard Deviation									0.0	0.0	19.2	0.9

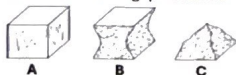
14 Day Compressive Strength

Lab Number	Cube Mark	Date Cast	Date Tested	Age Days	Break Pattern	Flatness	Mass	Apparent Density	Dimension		Load	Compressive Strength
									Length	Width		
F	6	05-04-2024	19-04-2024	14	A		8124	2407	150.00	150.00	788	35.0
G	7	05-04-2024	19-04-2024	14	A		8173	2422	150.00	150.00	814	36.2
H	8	05-04-2024	19-04-2024	14	A		8152	2415	150.00	150.00	813	36.1
Average									150.00	150.00	805 kN	36.0 MPa
Standard Deviation									0.0	0.0	14.6	0.6

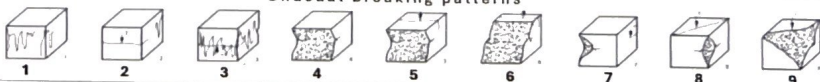
28 Day Compressive Strength

Lab Number	Cube Mark	Date Cast	Date Tested	Age Days	Break Pattern	Flatness	Mass	Apparent Density	Dimension		Load	Compressive Strength
									Length	Width		
I	9	05-04-2024	03-05-2024	28	A		8199	2429	150.00	150.00	882	39.2
J	10	05-04-2024	03-05-2024	28	A		8178	2423	150.00	150.00	906	40.3
K	11	05-04-2024	03-05-2024	28	A		8184	2425	150.00	150.00	871	38.7
L	12	05-04-2024	03-05-2024	28			8190	2427	150.00	150.00	892	39.7
Average									150.00	150.00	888 kN	39.0 MPa
Standard Deviation									0.0	0.0	15.0	0.7

Standard breaking patterns



Unusual breaking patterns



Deviation from test method :

Remarks and notes : NORMAL CRCP MIX DONE FOR THE SITE ON 05-04-2024

The samples were subjected to analysis according to (COLTO) (TMH1) (BS) (ASTM) (TMH5)

The test results reported relate to the sample tested.

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Report compiled by : Christiaan Jordaan

Signature
Christiaan Jordaan
Ground / Field Manager



Request no : AXION A4
Client : Axion Africa
Dei-Dei International Building
Material, Market Abuja.
Opposite Panteka

Date reported : 10-05-2024

Project : DANGOTE FERTILIZER TO ELEKO JUNCTION

Attention : **Axion Africa****Compressive Strength of Concrete Cubes [TMH1 - D1, D3, ASTM C293]**

Date Received :	05-04-2024	Structure / Element :	CRCP
Date in Water :	06-04-2024	Location :	REFINERY SECTION 1 LABORATORY
Cubes Made By :		Concrete Supplier :	ITB BATCH PLANT
Cubes Tested By :		Delivery Note No :	
Specified Strength (MPa) :	C35	Truck Reg. Number :	
Specified Slump :	60 mm	Environmental Condition :	SUNNY AND HOT
Measured Slump :	15 mm	Curing Tank Temp :	26 °C
Engineer's Specification :		Press Serial No :	
Balance Number :		Correction Factor	1.000

7 Day Compressive Strength

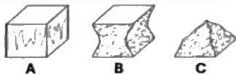
Lab Number	Cube Mark	Date Cast	Date Tested	Age Days	Break Pattern	Flatness	Mass	Apparent Density	Dimension		Load	Compressive Strength
									Length	Width		
C025	1	05-04-2024	12-04-2024	7	A		8148	2414	150.00	150.00	679	30.2
C026	2	05-04-2024	12-04-2024	7	A		8264	2449	150.00	150.00	610	27.1
C027	3	05-04-2024	12-04-2024	7	A		8275	2452	150.00	150.00	629	28.0
Average									150.00	150.00	640 kN	28.0 MPa
Standard Deviation									0.0	0.0	35.4	1.6

14 Day Compressive Strength

Lab Number	Cube Mark	Date Cast	Date Tested	Age Days	Break Pattern	Flatness	Mass	Apparent Density	Dimension		Load	Compressive Strength
									Length	Width		
C028	4	05-04-2024	19-04-2024	14	A		8233	2439	150.00	150.00	791	35.1
C029	5	05-04-2024	19-04-2024	14	A		8199	2429	150.00	150.00	731	32.5
C030	6	05-04-2024	19-04-2024	14	A		8257	2447	150.00	150.00	771	34.3
Average									150.00	150.00	764 kN	34.0 MPa
Standard Deviation									0.0	0.0	30.6	1.4

28 Day Compressive Strength

Lab Number	Cube Mark	Date Cast	Date Tested	Age Days	Break Pattern	Flatness	Mass	Apparent Density	Dimension		Load	Compressive Strength
									Length	Width		
C032	7	05-04-2024	03-05-2024	28	A		8229	2438	150.00	150.00	778	34.6
C033	8	05-04-2024	03-05-2024	28	A		8261	2448	150.00	150.00	796	35.4
C034	9	05-04-2024	03-05-2024	28	A		8192	2427	150.00	150.00	790	35.1
C035	10	05-04-2024	03-05-2024	28	A		8240	2441	150.00	150.00	817	36.3
Average									150.00	150.00	795 kN	35.0 MPa
Standard Deviation									0.0	0.0	16.1	0.7

Standard breaking patterns**Unusual breaking patterns****Deviation from test method :****Remarks and notes :** CRCP MIX DONE WITHOUT ANY CHEMICALS ADDED FOR STRENGTH COMPARISON

The samples were subjected to analysis according to (COLTO) (TMH1) (BS) (ASTM) (TMH5)

The test results reported relate to the sample tested.

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Report compiled by : Christiaan Jordaan

Signature

Christiaan Jordaan
Ground / Field Manager



Request no : AXION A5
Client : Axion Africa
Dei-Dei International Building
Material, Market Abuja.
Opposite Panteka

Project : DANGOTE FERTILIZER TO ELEKO JUNCTION

Date reported : 10-05-2024

Attention : **Axion Africa**

Compressive Strength of Concrete Cubes [TMH1 - D1, D3, ASTM C293]

Date Received :	06-04-2024	Structure / Element :	CRCP
Date in Water :	07-04-2024	Location :	REFINERY SECTION 1 LABORATORY
Cubes Made By :		Concrete Supplier :	MIXER AT LABORATORY
Cubes Tested By :		Delivery Note No :	
Specified Strength (MPa) :	C35	Truck Reg. Number :	
Specified Slump :	60 mm	Environmental Condition :	SUNNY AND HOT
Measured Slump :	40 mm	Curing Tank Temp :	26 °C
Engineer's Specification :		Press Serial No :	
Balance Number :		Correction Factor	1.000

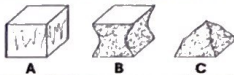
7 Day Compressive Strength

Lab Number	Cube Mark	Date Cast	Date Tested	Age Days	Break Pattern	Flatness	Mass	Apparent Density	Dimension		Load	Compressive Strength
									Length	Width		
A	1	06-04-2024	13-04-2024	7	A		8211	2433	150.00	150.00	859	38.2
B	2	06-04-2024	13-04-2024	7	A		8175	2422	150.00	150.00	840	37.3
C	3	06-04-2024	13-04-2024	7	A		8130	2409	150.00	150.00	845	37.5
Average									150.00	150.00	848 kN	38.0 MPa
Standard Deviation									0.0	0.0	10.2	0.5

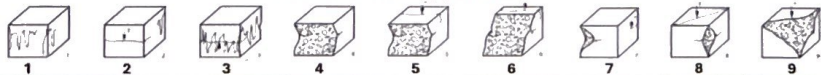
28 Day Compressive Strength

Lab Number	Cube Mark	Date Cast	Date Tested	Age Days	Break Pattern	Flatness	Mass	Apparent Density	Dimension		Load	Compressive Strength
									Length	Width		
D	4	06-04-2024	04-05-2024	28	A		8194	2428	150.00	150.00	1021	45.4
E	5	06-04-2024	04-05-2024	28	A		8205	2431	150.00	150.00	995	44.2
F	6	06-04-2024	04-05-2024	28	A		8169	2420	150.00	150.00	997	44.3
Average									150.00	150.00	1004 kN	45.0 MPa
Standard Deviation									0.0	0.0	14.4	0.6

Standard breaking patterns



Unusual breaking patterns



Deviation from test method :

Remarks and notes : CRCP MIX DONE WITH AXION AFRICA LIQUID POLYMER ADDED

The samples were subjected to analysis according to (COLTO) (TMH1) (BS) (ASTM) (TMH5)

The test results reported relate to the sample tested.

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