Kiwa CMT

Kiwa CMT Testing
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Central Midlands Laboratories
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Date: 29th March 2021

Lab Ref: 62951

Order Ref: CML 280

Originator: Nick Collier

Site: N/A Natchem 35.

Samples: 2 x 25kg bags of Natchem material were delivered, by the client, to Kiwa CMT on the 18th February 2021.

Requirements: To mix the material at a water solids ratio of 0.144 (14.4%) and produce 2 sets of prisms to be tested at 7 and 28 days respectively for Density, Flexural Strength and Compressive strength in accordance with BSEN1015-11. Hardened samples were then analysed for Chloride content in accordance with EN1015-17.

Results: Detailed test results and information are appended.

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G. Peach AMICT
Department Manager
Building Products

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Results:

Density, Flexural Strength and Compressive Strength (7 days after casting)

Ref	Cast Date	Test Date	Density (Kg/m³)	Flexural Strength (N/mm²)	Compressive Strength (N/mm²)	Compressive Strength (N/mm²)
Natchem 35 (7d)	01/03/21	08/03/21	2245	6.59	44.9	45.6
Natchem 35 (7d)	01/03/21	08/03/21	2245	5.51	41.4	42.6
Natchem 35 (7d)	01/03/21	08/03/21	2244	5.51	49.1	45.4
		Av	**2245**	**5.87**	**Av**	**44.8**

Density, Flexural Strength and Compressive Strength (28 days after casting)

Ref	Cast Date	Test Date	Density (Kg/m³)	Flexural Strength (N/mm²)	Compressive Strength (N/mm²)	Compressive Strength (N/mm²)
Natchem 35 (28d)	01/03/21	29/03/21	2225	7.52	55.0	57.3
Natchem 35 (28d)	01/03/21	29/03/21	2228	7.42	56.3	56.2
Natchem 35 (28d)	01/03/21	29/03/21	2229	7.42	55.8	58.1
		Av	**2230**	**7.45**	**Av**	**56.4**

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DETAILED ANALYTICAL RESULTS - CHLORIDES

Client	Central Midland Labs	**Job No.**	62951
Contact	Nick Collier	**Site^**	Natural Cement
Order Ref	CML280	**Date Received**	08/03/2021
Date Analysed	8 - 12/03/2021	**Date Reported**	15/03/2021
Test Methods	EN1015-17	**Sample Description**	Mortar

Sample Reference^	%Chloride by mass of sample
62951-1 Natcem35	0.010
62951-7 Trackcrete	<0.01

Comments
Results apply to the samples as received.

Identified information supplied by the client (^) can affect the validity of the result

Signed : B Fairweather
Technical Administrator

Approved : D. Mullee
Departmental Manager