Client:	Parchem Construction Supplies Pty Ltd 7 Lucca Road Wyong NSW 2259
Your Reference:	Renderoc Testing
Our Reference:	JN 18-10-148

Certificate of Test No. 14110

Sample:	Cement Based Mortar Samples
Date Received:	14th May 2018
Date Tested:	13th June – 23rd July 2018
From:	
Description & Condition:	3 -off nominal 200 x 100 mm diameter cement based mortar samples

Test Description: **Chloride Diffusion, Nordtest NT Build 443**

Sample Preparation:

Samples prepared by client and cured prior to submitting to SGS Laboratory. Samples further cured in sealed bags at 23 ± 2 °C to specified date prior to test. Sub-samples were taken from the body of the cylinder, coated with epoxy resin and saturated to constant weight.

Test Method:

Method of test in accordance with Nordtest NT Build 443 Approved 1995-11 "Concrete, Hardened: Accelerated Chloride Penetration". Sub-samples analysed for chloride content by BS 1881: Part 124: 2015 "Methods for Analysis of Hardened Concrete" Section 12.1, except titration by potentiometric method.

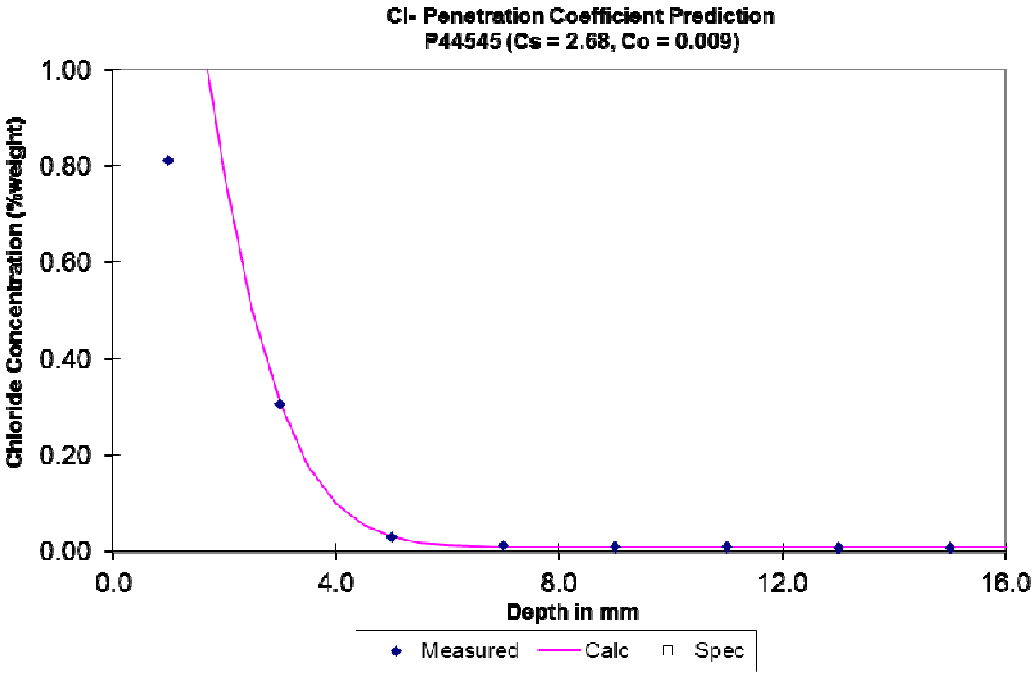
	23/07/2018		27/06/2019
Tested By	Date	Authorised Signatory	Date
A. Luobikis, Assistant Geotechnician		N. Nguyen, Specialised Laboratory Manager	

SGS Australia Pty Ltd | Industrial Division, 112 Mulgul Road, Malaga WA 6090 **t** + 1300 781 744 **f** + 61 (8) 9209 8781 www.sgs.com

Test Results:

Sample Identification

SGS Laboratory No: P44545
Client Sample No: Parchem Renderoc ST06
Date Cast: 02/05/2018 (supplied by client)



1. Chloride Ion Concentration Profile: (average of three test pieces)

Depth/mm	% Cl by wt Concrete
0-2	0.810 (ignored in curve fit)
2-4	0.306
4-6	0.030
6-8	0.012
8-10	0.010
10-12	0.010
12-14	0.008
14-16	0.008
Background, C_i	0.009

2. Determined Diffusion Coefficient, D_e: 0.6×10^{-12} m^2/sec
   Surface Chloride Concentration, C_s: 2.68 %
   Final Chloride Concentration, C_f: 0.05%

3. Penetration Parameter, K_{Cf}: 15 mm/√year

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