Client:	Parchem Construction Supplies Pty Ltd 7 Lucca Road Wyong NSW 2259
Your Reference:	Renderoc Testing
Our Reference:	JN 16-10-349

Certificate of Test No. 16216

Sample:	Repair Mortar Sample
Date Received:	13th December 2016
Date Tested:	08th February – 17th March 2017
From:	
Description & Condition:	1 –off bag of RENDEROC HB70 PLUS

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

Sample Preparation:

Standard cylinder samples (200 x 100 mm diameter) were cast by SGS as per Parchem's instructions. Samples were demoulded at 24 hours and cured in limewater at 23±2 °C until test dates. 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.

This Certificate of Test replaces Certificate of Test No. 12107 which is now withdrawn.

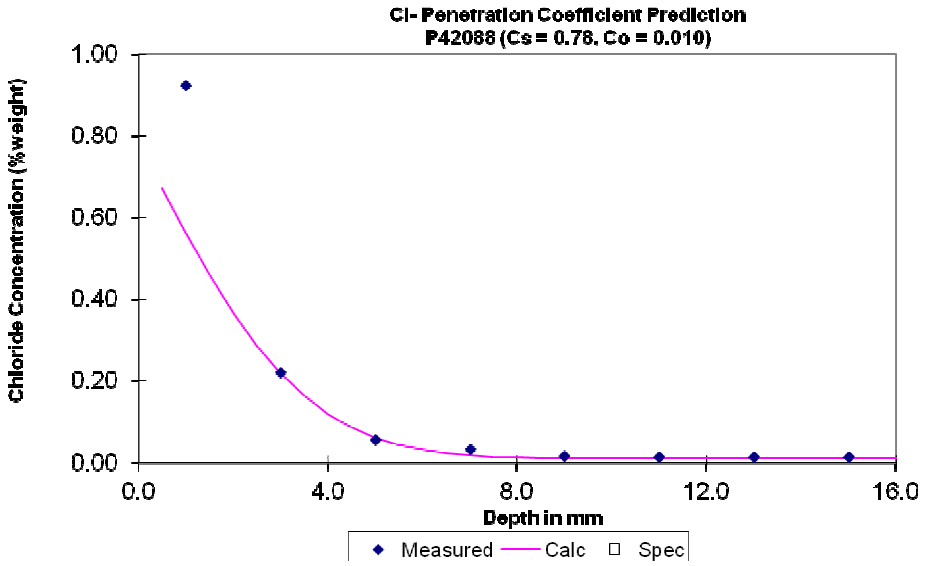
	17/03/2017		30/05/2022
Tested By R. Lu, Geotechnician	Date	Authorised Signatory N. Nguyen, Laboratory & Quality Manager	Date

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: P42088
Client Sample No: RENDEROC HB70 PLUS
Date Cast: 14/12/2016



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

Depth/mm	% Cl by wt Concrete
0-2	0.922 (ignored in curve fit)
2-4	0.219
4-6	0.055
6-8	0.032
8-10	0.016
10-12	0.013
12-14	0.014
14-16	0.013
Background, C_i	0.010

2. Determined Diffusion Coefficient, D_e: 1.2×10^{-12} m^2/sec
   Surface Chloride Concentration, C_s: 0.78 %
   Final Chloride Concentration, C_f: 0.05%

3. Penetration Parameter, K_{Cf}: 17 mm/√year

Note: Editorial changes made to Client ID only.