

**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:** 13<sup>th</sup> December 2016

**Date Tested:** 08<sup>th</sup> February – 17<sup>th</sup> 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  $23 \pm 2$  °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This Certificate of Test replaces Certificate of Test No. 12107 which is now withdrawn.



Tested By  
R. Lu, Geotechnician

17/03/2017

Date



Authorised Signatory  
N. Nguyen, Laboratory & Quality Manager

30/05/2022

Date



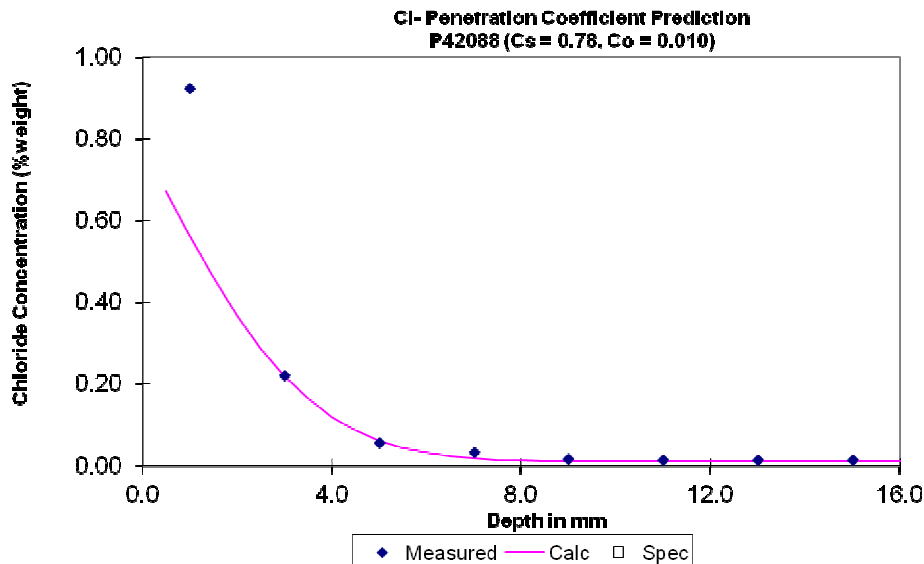
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**Test Results:**

Sample Identification

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



- 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
- Determined Diffusion Coefficient,  $D_e$ :  $1.2 \times 10^{-12} \text{ m}^2/\text{sec}$   
 Surface Chloride Concentration,  $C_s$ : 0.78 %  
 Final Chloride Concentration,  $C_f$ : 0.05%
- Penetration Parameter,  $K_{Cl}$ : 17 mm/ $\sqrt{\text{year}}$

Note: Editorial changes made to Client ID only.

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