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CLIENT: Guardian Protective Coatings
Suite 4, 105 Broadway
Nedlands WA 6009

YOUR REF: Waterbased Gloss White

OUR REF: J/N 61/12579/08

Certificate of Test No. 5199

Sample: Waterbased Gloss White

Date Received: 21 September 2005

Date Tested: 21 October 2005 – 02 February 2006

From: Guardian Protective Coatings, Nedlands

Description & Condition: 1 –off 1L kit of Waterbased Gloss White

TEST DESCRIPTION: CHLORIDE ION DIFFUSION RESISTANCE

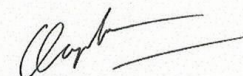
Sample Preparation:

Coating system consisted of 2 coats by 10 mm napped roller on unglazed ceramic tiles. Recoat interval was 4 hours.


Test pieces cured for 14 days at $23 \pm 2^\circ\text{C}$ prior to test.

Test Method:

GHD Pty Ltd Laboratory Procedure No. LP/CTG03 "Procedure for Determination of the Chloride Ion Diffusion Resistance of Coatings, Membrane Cell Method". Diffusion co-efficient was determined under non-steady-state conditions using Fick's Second Law of Diffusion. This method complies with the requirements of AS/NZS 4548.5-1999 Appendix E 'Guidelines on Chloride Ion Diffusion Resistance Testing'.


Tested By
N. Nguyen, Chemist

02/02/06
Date


Approved Signatory
A.M. Peek, Principal Materials Scientist

Date



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Test Results:

GHD Sample No:	P26986
Client Identification:	Waterbased Gloss White
Driving cell NaCl concentration, M:	5.0
Volume of driving and measuring cells, cm ³ :	550
Measured Dry Film Thickness, microns:	50
Cross-sectional area of test specimen, cm ² :	51.1
Orientation:	Through Coating
Temperature during test, °C:	23±2
Duration of test, days:	104
Chloride Ion Diffusion Coefficient, m ² /sec:	< 0.1 x 10 ⁻¹²

Note: 1. Results shown are mean values for test pieces P26986AI and P26986AII.

2. These results apply only to the formulation as submitted for test. Changes in the nature, source, or proportion of any component may render these results invalid.