TAYWOOD ◣ ENGINEERING ◣ LIMITED

CONSULTANTS IN MATERIALS TECHNOLOGY

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CLIENT: Australian Tech Dry

YOUR REF: Solid Silane Coating System

OUR REF: J/N: 2242-01

Certificate of Test No. 2892

Sample: Solid Silane

Date Received: 22 April 1999

From: Australian Tech Dry

Description & Condition: 2 x 1L containers of Solid Silane

TEST DESCRIPTION: DEPTH OF PENETRATION

Sample Preparation

Concrete cylinder substrates prepared in accordance with AS 1012.2-1994 "Methods of Testing Concrete. Method 2 : Preparation of Concrete Mixes in the Laboratory". Cylinders demoulded at 24 hrs then immersed and cured in limewater at 23±2°C to 28 days age. Substrates removed from limewater and air-dried in laboratory at 23±2°C and 50±20%RH for a minimum 7 days prior to coating. Substrates wire-brushed and air blasted to remove laitence and loose fragments prior to coating.

Coating system consisted of one coat Solid Silane applied at 500µm WFT. Application by brush to 200 x 100mm diameter concrete cylinder substrate by Taywood Engineering Limited (Perth). Coated samples cured 7 days in laboratory at 23±2°C and 50±20% RH prior to test.

Test Method

Section face exposed by breaking cylinder with hammer and chisel. Surface misted with water and depth of unwetted zone measured.

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TEST RESULTS

Concrete Substrate Mix Proportions

TEL Lab No.	Component & Source	Mix
	Cement (kg/m^3)	
P18248	Type GP Cement (Cockburn Cement Ltd)	350
	Aggregate (kg/m^3)	
P18076	20mm Granite (Boral)	650
P15701	14/10mm Granite (CSR Readymix)	520
	7mm Granite (CSR Readymix)	145
	Jandakot Sand	630
	Water (L/m^3)	175
	Admixtures (mL/m^3)	
P16157	Pozzolith 322N (MBT Australia)	150
	Slump (mm)	85

4.10.99 ..... Tested by / Date

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TEST RESULTS

Test Cylinder	Mean Depth mm	Range mm
P18291	4.0	2.0-6.0
P18292	4.0	2.0-7.0
P18293	4.5	2.0-8.0
P18294	4.5	2.0-8.0
P18295	7.5	3.0-10.0
P18296	7.0	4.0-8.0
P18297	9.0	6.0-11.0
P18298	8.0	5.0-10.0
Mean	6.0	

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