



**Boral Construction Materials
Materials Technical Services**
Unit 4, 3-5 Gibbon Road
Baulkham Hills NSW 2153 Australia
PO Box 400, Winston Hills NSW 2153
T: +61 2 9624 9900
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www.boral.com.au

TEST REPORT

CLIENT: XYPEX AUSTRALIA
Address: 9/177 Arthur Street Homebush West NSW 2140

FILE NO: 256/11

SOURCE OF SAMPLE: Unknown

LAB SAMPLE NO: 116945

REQUEST NO.: 43479

SAMPLE IDENTIFICATION: Ecotec Silica Fume – Monthly Sample for June. 2011

IDENTIFICATION OF CEMENT USED: Boral Cement SL Berrima – ID # 64514

TEST METHOD: ASTM C-1240-04 Use of Silica Fume as a Mineral Admixture in Hydraulic-Cement Concrete, Mortar & Grout

Accelerated Pozzolanic Strength Activity Index With Portland Cement - ASTM C1240-04

Date Cast: 22-06-11

Date Crushed: 29-06-11 @ 7 Days

Results:	Accelerated Pozzolanic Strength Activity Index:	125% @ 7 Days
	Control Mix Strength:	40.3 MPa
	Test Mix Strength:	50.3 MPa

Note:

Test mix used 242 mls of water and 5.6 grams of Water Reducer (Rheobuild 1000 from BASF) to obtain a flow of 111%.

Daniel Rowley, Mark Hanlon, Mat. File, File

Muans Abdulnebe



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COMPETENCE

Approved Signatory _____

Date 6/07/11

Serial No. _____

97727

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TEST METHOD: AS3583: Methods of test for supplementary cementitious materials for use with Portland Cement

PROPERTY	DATE TESTED	RESULT	TEST METHOD	AS3582 SPEC.
Moisture content	22-06-11	0.7%	AS3583.2	Max. 3.0%
Loss on ignition	22-06-11	2.1 %	AS3583.3	Max. 6.0%
Relative Density	22-06-11	2.29	AS3583.5	

Sample submitted by the client.

Daniel Rowley, Mark Hanlon, Mat. File, File



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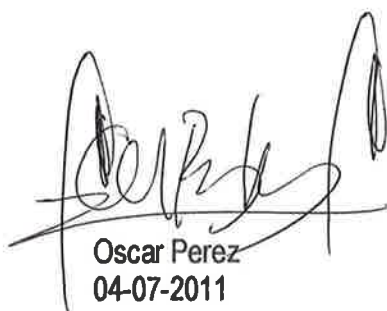
SOURCE OF SAMPLE: Unknown

SAMPLE IDENTIFICATION: Ecotec Silica Fume –Monthly Sample for June.2011

Bulk Density - AS3582.3.6.5

Result: 601 Kg/m³

BORAL



Oscar Perez
04-07-2011

Daniel Rowley, Mark Hanlon, Mat. File, File



MATERIALS TECHNICAL SERVICES
BORAL RESOURCES (NSW) PTY LTD
ABN 51 000 756 507

Unit 4, 3-5 Gibbon Road
Baulkham Hills NSW 2153 Australia
PO Box 400, Winston Hills NSW 2153
Telephone 61 2 9624 9900
Facsimile 61 2 9624 9999

Test Report

CLIENT: XYPEX AUSTRALIA
9/177 Arthur Street, Homebush west, NSW 2140.

FILE No.:256/11

PROJECT: Testing of Silica Fume Sample.

REQUEST No.: 43479

TEST PROCEDURE:

AS3583.12 – 1991 – Determination of Available Alkali

Laboratory Sample No.: 116945
Date Sampled: Unknown
Date Received: 06/06/11
Sample Description: Ecotec Silica Fume -
Monthly June'11.

Field No.: 1

TEST RESULTS

Sodium as Na₂O (%) 0.28
Potassium as K₂O (%) 0.48
Available Alkali (%) 0.6

Available Alkali (%) = Na₂O (%) + (0.658 x K₂O %)

Samples submitted by the Client.

D. Rowley, G.Kao, File



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Approved Signatory

Nanthini Selvadurai

Nanthini Selvadurai

Date 06-07-11

Serial No.

97729

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Test Report

CLIENT: XYPEX AUSTRALIA
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FILE No.:256/11

PROJECT: Testing of Silica Fume Sample.

REQUEST No.: 43479

TEST PROCEDURE: Boral Chemical Method 2 – Determination of metal oxides by Lithium Meta Borate Fusion and analysed using ICP

Laboratory Sample No.: 116945
Date Sampled: Unknown
Date Received: 06/06/11
Sample Description: Ecotec Silica
Fume - Monthly
June'11.

Field No.: 1

TEST RESULTS

Silicon as SiO₂ (%) 91.7

Sample submitted by the client.

Nanthini Selvadurai
Analytical Chemist
6th July 2011
D. Rowley, G.Kao, File

Test Report

CLIENT: XYPEX AUSTRALIA
9/177 Arthur Street, Homebush west, NSW 2140.

FILE No.:256/11

PROJECT: Testing of Silica Fume Sample.

REQUEST No.: 43479

TEST PROCEDURE: AS3583.13 – Determination of Chloride Ion Content
AS3583.8 – Determination of Sulfuric Anhydride content

Laboratory Sample No.: 116945
Date Sampled: Unknown
Date Received: 06/06/11
Sample Description: Ecotec Silica Fume -
Monthly June '11

Field No.: 1

TEST RESULTS

Chloride as Cl^- (%) 0.186
Sulphate as SO_3 (%) 0.8

Samples submitted by the Client.

D. Rowley, G.Kao, File