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BRITISH BOARD OF AGREMENT ASSESSMENT REPORT No 2280

Test and Assessment of Eliminator Bridgedeck Waterproofing for use on minimum seven day-old concrete

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Approved by:
(Section Head)

Date:

26 April 2004

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Date:

05 MAY 2004

On behalf of the British Board of Agrément

Client: Stirling Lloyd Polychem Ltd
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Job No: M2/34926

Report by: M Javed

Work period: March 2004 to April 2004

1 INTRODUCTION

This report relates to the assessment of the Eliminator Bridgedeck Waterproofing System, subject of BBA Roads and Bridges Certificate No 99/R111 and 99/R112, for use on minimum seven day-old concrete.

2 TEST PROGRAMME

2.1 Age of concrete substrate

3 TEST SAMPLES

All samples were supplied by the Applicant for the purpose of this test. Preparation of the samples was witnessed by the BBA.

4 TEST RESULTS

4.1 Age of concrete substrate

4.1.1 Method

In accordance with Clause 3.3.2.12 of the Guidelines Document for the Assessment and Certification of Waterproofing Systems for use on Concrete Decks of Highway Bridges (Working Draft 1.1 Dated 14 January 2003).

4.1.2 Samples

BBA Ref/Batch No	Quantity	Description
M2/34926/1	3	Eliminator BDW on concrete blocks 7 to 9 days old, using PA 1 Primer
M2/34926/2	3	Eliminator BDW on concrete blocks 7 to 9 days old, using PAR 1 Primer

4.1.3 Results

Temperature (°C)	Batch No	Sample No	Stress at failure (Nmm ⁻²)	Mode of failure
23	1	1	0.53	95% adhesion of primer to concrete 5% within concrete
		2	0.67	95% adhesion of primer to concrete 5% within concrete
		3	0.72	95% adhesion of primer to concrete 5% within concrete
	2	1	0.53	100% adhesion of primer to concrete
		2	0.69	95% adhesion of primer to concrete 5% within concrete
		3	0.59	95% adhesion of primer to concrete 5% within concrete

Test results at 23°C comply with the Guidelines Document minimum requirement of 0.3 Nmm⁻²

5 CONCLUSION

Eliminator Bridgedeck Waterproofing System is satisfactory for use on concrete bridge decks which are a minimum of seven days old.