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BRITISH BOARD OF AGRÉMENT TEST REPORT T163998 Issue 2

HEVADEX BVBA – ADHESION OF SINIAT UNIVERSAL BONDING COMPOUND TO BLOWERPROOF SPRAY APPLIED COATING

CONTENTS

- i Note on Issue 2
- 1 Report conditions
- 2 Bond strength – BBA prepared specimen
- Appendix A - Sample description and traceability

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Date: 26 March 2019

On behalf of the British Board of Agrément

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Job No: T1 63998

Work Period: November 2018 to January 2019

i **NOTE ON ISSUE 2**

Issue 2 supersedes Issue 1 and differs from the original issue of this report by the following changes:

- The title was amended to include the name of the bonding compound
- An original Section 2 covering a client prepared specimen was deleted as the preparation process compromised the bond and the results were unrepresentative. The sections were renumbered.
- A reference to BS EN 14496 was included in Section 2.1 Method as the standard informed the procedure used for the testing.

1 **REPORT CONDITIONS**

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2 BOND STRENGTH – BBA PREPARED SPECIMEN

2.1 Method

The method is based on BS EN 14496: 2017 *Gypsum based adhesives for thermal/acoustic insulation composite panels and gypsum boards - Definitions, requirements and test methods* clause 5.6, adopting the same size of test area.

The Universal Bonding Compound material was mixed in accordance with the manufacturer's instructions (5kg powder to 2.4 litres of water). Spacers 16mm thick were positioned either side of the Blowerproof board, the mixed bonding compound was then spread in-between and smoothed off. The test areas (100mm x 100mm) were isolated before the bonding compound had started to fully harden.

The sample was stored and tested in controlled conditions of 23°C and 50%RH. (Covered with polythene for the first two days)

The sample was 17 days old when tested.

The test was performed at a speed of 2 mm·min⁻¹ until failure.

2.2 Samples

BBA Ref/Lot	Quantity	Description ⁽¹⁾
T1/63998/1	1	Siniat, GTEC, Universal Bonding Compound powder 25kg
T1/63998/3	1	OSB with Blowerproof 500x250mm, Prepared by the client (un-witnessed)
T1/63998/4	1	OSB with Blowerproof 500x250mm, Prepared by the client (un-witnessed) Coated with Universal Bonding Compound applied by the BBA on 04 December 2018

(1) See Appendix A *Sample description and traceability*.

2.3 Results

Lot	Specimen	Maximum load (N)	Stress at maximum load (N·mm ⁻²)	Mode of failure
4	1	3383.2	0.34	Interface between Blowerproof and Siniat Universal Bonding compound (A very thin layer of bonding compound remained on the Blowerproof)
	2	2534.5	0.25	
	3 ⁽²⁾	2499.0	0.25	
	4	3248.3	0.32	
	Mean	2916.3	0.29	

(2) The corner of specimen no. 3 was not properly bonded to the plate and so also failed through the thickness of the material, see plate 3.4.8.

2.4 Photographs



Plate 2.4.1: Lot 3 Blowerproof board.



Plate 2.4.2: Lot 3 Showing 16mm thickness spacers.



Plate 3.4.3: After application of the bonding compound.



Plate 3.4.4: After test with plates re-positioned.



Plate 3.4.5: After test.

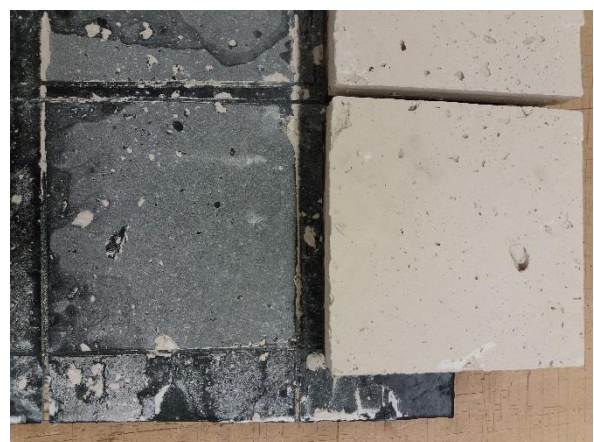


Plate 3.4.6: Specimen No.1.

2.4 Photographs (continued)



Plate 3.4.7: Specimen No.2.






Plate 3.4.8: Specimen No.3.


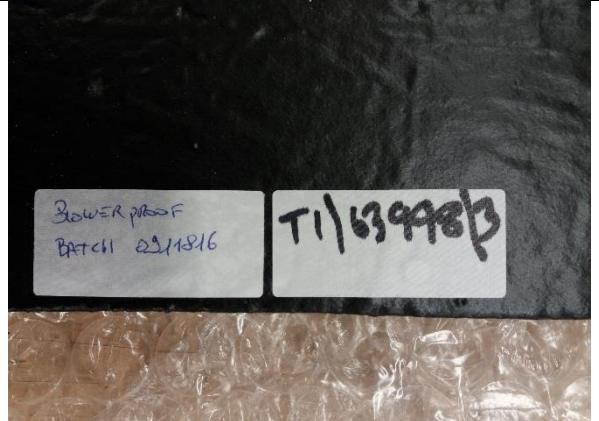


Plate 3.4.9: Specimen No.4.

APPENDIX A - SAMPLE DESCRIPTION AND TRACEABILITY

BBA Ref/Lot	Description and Traceability	Plates
T1/63998/1	<p>Siniat, GTEC, Universal Bonding Compound powder 25kg</p> <p>Use by 10/02/2019</p>	<div data-bbox="831 230 1385 958">  <p>Front view.</p> </div> <div data-bbox="831 992 1385 1715">  <p>Rear view.</p> </div>

BBA Ref/Lot	Description and Traceability	Plates
T1/63998/1	Siniat, GTEC, Universal Bonding Compound powder 25kg Use by 10/02/2019	 <p>Side view</p>

BBA Ref/Lot	Description and Traceability	Plates
T1/63998/3	OSB with Blowerproof 500 x 250mm, Prepared by the client (un-witnessed) Batch no: 0911816	
		

BBA Ref/Lot	Description and Traceability	Plates
T1/63998/4	OSB with Blowerproof 500x250mm, Prepared by the client (un-witnessed) Coated with Universal Bonding Compound applied by the BBA on 4/12/18 using Lots 1 and 3	