

CONSTRUCTION PRODUCTS TESTING LABORATORY

**Report from
determination of the product
type on the basis of type testing**

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№ 1 18 6204 / 09.03.2015

The testing is performed from NB 1871 in accordance with the requirements of Annex V of Regulation (EU) No 305/2011 laying down harmonized conditions for the marketing of construction products, under system 3 for conformity assessment

1. Adhesives for tiles:

Adhesive for ceramic tiles "Bau - Fliesen" made from „Bau Klar" d.o.o.

2. Test requested by:

*"Bau Klar" d.o.o., Termoelektrane b.b. 75300 Lukavac, Bosnia and Herzegovina
application № 2-1233/23.12.2014*

3. Test methods:

BDS EN 1346:2008 Adhesives for tiles - Determination of open time

BDS EN 1348:2008 Adhesives for tiles - Determination of tensile adhesion strength for cementitious adhesives

BDS EN 1308:2009 Adhesives for tiles - Determination of slip

4. Date of delivery and quantity of samples for testing: 23.12.2014, 1 sample – 15 kg

5. Date of test: 16.01.2015 -06.03.2015

6. Result:

The sample submitted for testing by adhesive for tiles "Bau - Fliesen" made from „Bau Klar" d.o.o. is classified as a type **C2TE** adhesive according to the EN 12004:2007+A1:2012

Laboratory manager :
/ eng. H Angelova /

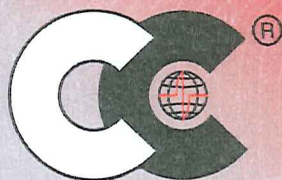
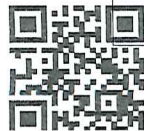




7. Test results:

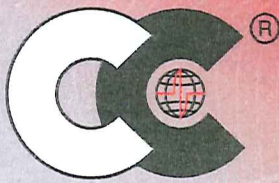
№	Name of testing/ characteristic	Unit of measure	Standardized methods	Diary sample №	Test results (uncertainty)	Parameter value and tolerance	Environmental conditions	Deviations, additions or exclusions from the test methods										
1	2	3	4	5	6	7	8	9										
1.	Open time: tensile adhesion strength																	
1.1	After 5 min	N/mm ²	BDS EN 1346:2008	5531-0	<table border="1"> <tr><td>2.4 / CF-A</td></tr> <tr><td>2.5 / CF-A</td></tr> <tr><td>2.2 / AF-T</td></tr> <tr><td>2.6 / CF-A</td></tr> <tr><td>2.2 / CF-A</td></tr> <tr><td>2.3 / CF-A</td></tr> <tr><td>2.3 / CF-A</td></tr> <tr><td>2.4 / CF-A</td></tr> <tr><td>2.2 / CF-A</td></tr> <tr><td>2.4 / CF-A</td></tr> </table> <p>average 2.4 ± 0.1</p>	2.4 / CF-A	2.5 / CF-A	2.2 / AF-T	2.6 / CF-A	2.2 / CF-A	2.3 / CF-A	2.3 / CF-A	2.4 / CF-A	2.2 / CF-A	2.4 / CF-A	-	t = 22°C RH = 59%	No
2.4 / CF-A																		
2.5 / CF-A																		
2.2 / AF-T																		
2.6 / CF-A																		
2.2 / CF-A																		
2.3 / CF-A																		
2.3 / CF-A																		
2.4 / CF-A																		
2.2 / CF-A																		
2.4 / CF-A																		
1.2	After 10 min	N/mm ²	BDS EN 1346:2008	5531-0	<table border="1"> <tr><td>1.9 / AF-T</td></tr> <tr><td>2.2 / AF-T</td></tr> <tr><td>2.0 / AF-T</td></tr> <tr><td>2.0 / AF-T</td></tr> <tr><td>2.0 / AF-T</td></tr> <tr><td>1.8 / AF-T</td></tr> <tr><td>2.0 / AF-T</td></tr> <tr><td>1.8 / AF-T</td></tr> <tr><td>2.1 / AF-T</td></tr> </table> <p>average 2.0 ± 0.1</p>	1.9 / AF-T	2.2 / AF-T	2.0 / AF-T	2.0 / AF-T	2.0 / AF-T	1.8 / AF-T	2.0 / AF-T	1.8 / AF-T	2.1 / AF-T	-			
1.9 / AF-T																		
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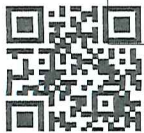


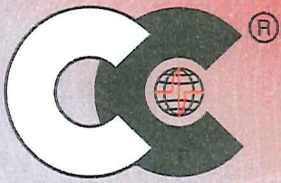
No	Name of testing/ characteristic	Unit of measure	Standardized methods	Diary sample №	Test results (uncertainty)	Parameter value and tolerance	Environmental conditions	Deviations, additions or exclusions from the test methods
1	2	3	4	5	6	7	8	9
1.3	After 20 min	N/mm ²	BDS EN 1346:2008	5531-0	1.7 / AF-T 2.1 / AF-T 2.3 / AF-T 1.9 / AF-T 1.8 / AF-T 2.0 / AF-T 2.0 / AF-T 1.8 / AF-T 1.9 / AF-T 2.1 / AF-T average 2.0 ± 0.1	≥ 0.5 (EN 12004)	t = 22°C RH = 59%	No
1.4	After 30 min	N/mm ²	BDS EN 1346:2008	5531-0	0.7 / AF-T 0.8 / AF-T 0.9 / AF-T 1.0 / AF-T 0.9 / AF-T 0.8 / AF-T 0.8 / AF-T 2.4 / CF-A 2.4 / CF-A 2.2 / CF-A 2.4 / CF-A 2.5 / CF-A 2.2 / CF-A 2.3 / CF-A 2.3 / CF-A 2.4 / CF-A 2.5 / CF-A average 0.8 ± 0.1	≥ 0.5 (EN 12004)	t = 22°C RH = 59%	No
2.	Initial tensile adhesion strenght	N/mm ²	BDS EN 1348:2008	5531-0	2.5 / CF-A 2.2 / CF-A 2.3 / CF-A 2.3 / CF-A 2.4 / CF-A 2.5 / CF-A average 2.4 ± 0.1	≥ 1.0 (EN 12004)	t = 22°C RH = 59%	No





№	Name of testing/ characteristic	Unit of measure	Standardized methods	Diary sample №	Test results (uncertainty)	Parameter value and tolerance	Environmental conditions	Deviations, additions or exclusions from the test methods
1	2	3	4	5	6	7	8	9
3.	Tensile adhesion strength after heat ageing-durability	N/mm ²	BDS EN 1348:2008	5531-0	1.3 / AF-T	average ≥ 1.0 (EN 12004)	t = 22°C RH = 59%	No
					1.6 / AF-T			
					1.6 / AF-T			
					1.8 / CF-A			
					1.4 / CF-A			
					1.6 / CF-A			
					1.6 / CF-A			
					1.4 / CF-A			
					1.6 / CF-A			
					1.6 / CF-A			
4.	Tensile adhesion strength after water immersion	N/mm ²	BDS EN 1348:2008	5531-0	1.6 / CF-A	average ≥ 1.0 (EN 12004)	t = 22°C RH = 59%	No
					1.6 / AF-T			
					1.5 / AF-T			
					1.4 / CF-A			
					1.4 / CF-A			
					1.4 / CF-A			
					1.4 / CF-A			
					1.4 / CF-A			
					1.4 / CF-A			
					1.4 / CF-A			





№	Name of testing/ characteristic	Unit of measure	Standardized methods	Diary sample №	Test results (uncertainty)	Parameter value and tolerance	Environmental conditions	Deviations, additions or exclusions from the test methods									
1	2	3	4	5	6	7	8	9									
5.	Tensile adhesion strength after freeze-thaw cycle	N/mm ²	BDS EN 1348:2008	5531-0	<table border="1"> <tr><td>1.3 / CF-A</td></tr> <tr><td>1.3 / CF-A</td></tr> <tr><td>1.4 / CF-A</td></tr> <tr><td>1.2 / CF-A</td></tr> <tr><td>1.2 / CF-A</td></tr> <tr><td>1.3 / CF-A</td></tr> <tr><td>1.2 / CF-A</td></tr> <tr><td>1.5 / CF-A</td></tr> <tr><td>1.4 / CF-A</td></tr> </table> <p>average 1.3 ± 0.1</p>	1.3 / CF-A	1.3 / CF-A	1.4 / CF-A	1.2 / CF-A	1.2 / CF-A	1.3 / CF-A	1.2 / CF-A	1.5 / CF-A	1.4 / CF-A	≥ 1.0 (EN 12004)	t = 21°C RH = 58%	No
1.3 / CF-A																	
1.3 / CF-A																	
1.4 / CF-A																	
1.2 / CF-A																	
1.2 / CF-A																	
1.3 / CF-A																	
1.2 / CF-A																	
1.5 / CF-A																	
1.4 / CF-A																	
6.	Determination of slip	mm	BDS EN 1308:2009	5531-0	<table border="1"> <tr><td>0.4</td></tr> <tr><td>0.4</td></tr> <tr><td>0.2</td></tr> </table> <p>0.3</p>	0.4	0.4	0.2	≤ 0.5 (EN 12004)	t = 22°C RH = 58%	No						
0.4																	
0.4																	
0.2																	

Note I: The test results apply to the samples only

Note II: The test certificate shall be entirely copied only and with agreement by the test laboratory.

Tested by:.....

D. Teneya /

I Ivanov /

Laboratory manager:.....
/ eng. H Angelova /

