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# SIMPLIFIED TESTS REPORT

No. 23/32304440-S

Bellaterra, 31st may 2023

### TIKA CONSTRUCTION CHEMICALS L.L.C

Hawari Rd. Benghazi Libya Product:

## Xtrem SuperCol Piscinas C2TES1

ADHESIVES FOR CERAMIC TILES, UNE-EN 12004-1:2017

Received Material (1): Cementitious adhesive

The manufacturer declares his product, according to the annexe ZA, as  $Class^{(1)}$ :

C2TE-S1

### **REQUESTED TESTS AND SUMMARY OF RESULTS**

		_								
<b>Tests date:</b> from 15/04/2023 to 26/05/2023						Page 1 of 1				
Added water <sup>(1)</sup> :	25,0%	TEST RESULTS		TEST UNCERTAINTY	NORMAL SETTING	FAST SETTING ADHESIVES 1b ( <b>F</b> )	Special characterisitics 1c ( <b>T</b> )	Additional characteristics		
(4)	_				ADHESIVES			High adherence	Extended open time	
Maturing time (1):	5 minutes				1a ( <b>C1</b> )			1d ( <b>C2</b> )	1e (E)	
	After 5 minutes		N/mm²		> 0 F N/mama?	≥ 0,5 N/mm² After not less			≥ 0,5 N/mm² after	
1- Determination of	After 10 minutes		N/mm²		≥ 0,5 N/mm <sup>2</sup> After not less					
open time, UNE-EN 12004-2:2017 It. 8.1	After 20 minutes	1,5	N/mm²	± 0,2 N/mm²	than 20	than 10 minutes			not less 30	
	After 30 minutes	1,0	N/mm²	± 0,2 N/mm <sup>2</sup>	minutes	minutes			minutes	
Tensile adhesion strength after 6 hours, UNE-EN 12004-2:2017 It. 8.3.3.2			N/mm²			≥ 0,5 N/mm <sup>2</sup> after not more than 6h				
Initial tensile adhesion strength, UNE-EN 12004-2:2017 It. 8.3.3.2		1,5	N/mm²	± 0,2 N/mm²	≥ 0,5 N/mm²			≥ 1 N/mm²		
Tensile adhesion strength after water immersion, UNE-EN 12004-2:2017 It. 8.3.3.3		1,0	N/mm²	± 0,2 N/mm²	≥ 0,5 N/mm²			≥ 1 N/mm²		
Tensile adhesion strength after heat ageing, UNE-EN 12004-2:2017 It. 8.3.3.4		1,7	N/mm²	± 0,2 N/mm²	≥ 0,5 N/mm²			≥ 1 N/mm²		
Tensile adhesion strength after freeze-thaw cycles, UNE-EN 12004-2:2017 It. 8.3.3.5		1,3	N/mm²	± 0,2 N/mm²	≥ 0,5 N/mm²			≥ 1 N/mm²		
Determination of slip, UN 2:2017 It. 8.2	E-EN 12004-	0,5	mm	± 0,06 mm			≤ 0,5 mm			
Determination of transverse deformation for cementitious adhesives, UNE-EN 12004-2:2017 It. 8.6		2,5	mm		According to his following classes are defined:		- S1: Value of defo			

<sup>(1)</sup> Provided by petitioner



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Responsible for Construction Mat. LGAI TECHNOLOGICAL CENTER, S.A.

Technical Manager LGAI Technological Center, S.A.

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# SIMPLIFIED TESTS REPORT

No. 23/32302701-S

Bellaterra, 31s	t may 2023					Product:					
•		ION C	CHEMIC	ALS L.L.	C						
TIKA CONSTRUCTION CHEMICALS L.L.C  Hawari Rd.  Benghazi  Libya						Xtrem XtraCol C2TE					
IADUECTVEC FOR CERAMIC THECHINE EN 12004 1,2017							The manufacturer declares his product, according to the annexe ZA, as Class <sup>(1)</sup> :				
Received Material		•				the annexe ZP	-				
received rideeridi							С2ТЕ				
	R	EQUES	STED TE	STS AND	SUMMARY	OF RESUL	.TS				
Tests date: from	n 15/04/2023 to	26/05/	/2023				Page 1	of 1			
Added water <sup>(1)</sup> :	25,0%			TEST UNCERTAINTY	NORMAL SETTING ADHESIVES 1a (C1)	FAST SETTING ADHESIVES	Special characterisitics 1c ( <b>T</b> )	Additional characteristi			
Maturing time (1):	·	TEST	RESULTS					High adherence	extended open time		
3	After 5 minutes		N/mm²		1a ( <b>C1</b> )	1b ( <b>F</b> )		1d ( <b>C2</b> )	1e (E)		
1- Determination of	After 10 minutes		N/mm²			≥ 0,5 N/mm <sup>2</sup> After not less than 10			≥ 0,5 N/mm² after not less 30		
open time, UNE-EN 12004-2:2017 It. 8.1	After 20 minutes	1,0	N/mm²	± 0,2 N/mm <sup>2</sup>							
	After 30 minutes	0,5	N/mm²	± 0,2 N/mm²	minutes	minutes			minutes		
Tensile adhesion strength after 6 hours, UNE-EN 12004-2:2017 It. 8.3.3.2			N/mm²			≥ 0,5 N/mm <sup>2</sup> after not more than 6h					
Initial tensile adhesion strength, UNE-EN 12004-2:2017 It. 8.3.3.2		1,4	N/mm²	± 0,2 N/mm²	≥ 0,5 N/mm²			≥ 1 N/mm²			
Tensile adhesion strength after water immersion, UNE-EN 12004-2:2017 It. 8.3.3.3		1,1	N/mm²	± 0,2 N/mm²	≥ 0,5 N/mm²			≥ 1 N/mm²			
Tensile adhesion strength	12	N/mm²	+ 0.2 N/mm <sup>2</sup>	> 0 5 N/mm <sup>2</sup>			> 1 N/mm <sup>2</sup>				

≥ 0,5 N/mm<sup>2</sup>

≥ 0,5 N/mm<sup>2</sup>

are defined:

According to his value the

following classes of adhesives

(1) Provided by petitioner

2:2017 It. 8.2

2:2017 It. 8.6



ageing, UNE-EN 12004-2:2017 It. 8.3.3.4 Tensile adhesion strength after freeze-thaw

cycles, UNE-EN 12004-2:2017 It. 8.3.3.5 Determination of slip, UNE-EN 12004-

Determination of transverse deformation

for cementitious adhesives, UNE-EN 12004-

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1,6

0,2

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S2 : Value of deformation ≥ 5mm

Technical Manager

≤ 0,5 mm

LGAI Technological Center, S.A.

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**N/mm<sup>2</sup>** ± 0,2 N/mm<sup>2</sup>

± 0,3 N/mm<sup>2</sup>

± 0,02 mm

N/mm<sup>2</sup>

mm

mm



 $\geq 1 \text{ N/mm}^2$ 

≥ 1 N/mm<sup>2</sup>

S1: Value of deformation ≥2,5 mm and <5mm



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# SIMPLIFIED TESTS REPORT

No. 23/32301337-S

Bellaterra, 13t	h february 202	23			Product:					
		ION CHEMIC	CALS L.L.	C						
Hawari Rd. Benghazi Libya						XtraCol C1TE				
ADHESIVES FOR C	The manufacturer declares his product, according to the annexe ZA, as Class <sup>(1)</sup> :  C1TE									
				CULLANA						
		EQUESTED TE	STS AND	SUMMARY	OF RESUL					
Tests date: from	n 14/12/2022 to	19/01/2023				Page 1	of 1			
Added water <sup>(1)</sup> :	24,0%		TEST UNCERTAINTY	NORMAL SETTING	FAST SETTING ADHESIVES 1b ( <b>F</b> )	Special characterisitics 1c ( <b>T</b> )	Additional characteristic			
Maturing time <sup>(1)</sup> :	uring time <sup>(1)</sup> : 5 minutes	TEST RESULTS		ADHESIVES 1a ( <b>C1</b> )			High adherence 1d ( <b>C2</b> )	Extended open time 1e (E)		
	After 5 minutes	N/mm²		. 0.5.11/	. 0.5.11/		-1-	≥ 0,5 N/mm² after not less 30 minutes		
1- Determination of	After 10 minutes	N/mm²			≥ 0,5 N/mm <sup>2</sup> After not less than 10					
open time, UNE-EN 12004-2:2017 It. 8.1	After 20 minutes	1,8 N/mm <sup>2</sup>	± 0,3 N/mm <sup>2</sup>							
	After 30 minutes	1,4 N/mm <sup>2</sup>	± 0,2 N/mm²	minutes	minutes					
Tensile adhesion strength after 6 hours, UNE-EN 12004-2:2017 It. 8.3.3.2		N/mm²			≥ 0,5 N/mm <sup>2</sup> after not more than 6h					
Initial tensile adhesion strength, UNE-EN 12004-2:2017 It. 8.3.3.2		1,7 N/mm²	± 0,2 N/mm <sup>2</sup>	≥ 0,5 N/mm²			≥ 1 N/mm²			
Tensile adhesion strength after water immersion, UNE-EN 12004-2:2017 It. 8.3.3.3		0,6 N/mm²	± 0,2 N/mm²	≥ 0,5 N/mm²			≥ 1 N/mm²			
Tensile adhesion strength after heat ageing, UNE-EN 12004-2:2017 It. 8.3.3.4		1,0 N/mm <sup>2</sup>	± 0,2 N/mm²	≥ 0,5 N/mm²			≥ 1 N/mm²			
Tensile adhesion strength cycles, UNE-EN 12004-2:	2017 It. 8.3.3.5	1,1 N/mm <sup>2</sup>	± 0,2 N/mm <sup>2</sup>	≥ 0,5 N/mm²			≥ 1 N/mm²			
Determination of slip, UN	E-EN 12004-	0.2 mm	± 0.04 mm			< 0.5 mm				

(1) Provided by petitioner

2:2017 It. 8.2

2:2017 It. 8.6



Determination of transverse deformation

for cementitious adhesives, UNE-EN 12004-

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0,2

mm

mm

± 0,04 mm

According to his value the

are defined:

following classes of adhesives

20

≤ 0,5 mm

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S2 : Value of deformation ≥ 5mm

S1: Value of deformation ≥2,5 mm and <5mm

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Technical Manager LGAI Technological Center, S.A.

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# SIMPLIFIED TESTS REPORT

No. 23/32302702-S

Bellaterra, 31st may 2023

### TIKA CONSTRUCTION CHEMICALS L.L.C

Hawari Rd. Benghazi Libya

**Xtrem SuperCol C2TES1** 

Product:

ADHESIVES FOR CERAMIC TILES, UNE-EN 12004-1:2017 Received Material <sup>(1)</sup>: Cementitious adhesive

The manufacturer declares his product, according to the annexe ZA, as Class<sup>(1)</sup>:

C2TE-S1

### **REQUESTED TESTS AND SUMMARY OF RESULTS**

Tools date: from 15/04/2022 to 26/05/2022										
<b>Tests date:</b> from 15/04/2023 to 26/05/2023						Page 1 of 1				
Added water <sup>(1)</sup> :	25,0%				NORMAL	FAST	Chasial	Additional characteristics		
Maturing time (1):	·	TEST RESULTS		TEST UNCERTAINTY	SETTING ADHESIVES 1a ( <b>C1</b> )	SETTING ADHESIVES 1b ( <b>F</b> )	Special characterisitics 1c ( <b>T</b> )	High adherence 1d ( <b>C2</b> )	Extended open time 1e (E)	
	After 5 minutes		N/mm²					()		
1- Determination of	After 10 minutes		N/mm²		≥ 0,5 N/mm <sup>2</sup> After not less	≥ 0,5 N/mm <sup>2</sup> After not less			≥ 0,5 N/mm <sup>2</sup> after	
open time, UNE-EN 12004-2:2017 It. 8.1	After 20 minutes	1,5	N/mm²	± 0,2 N/mm <sup>2</sup>	than 20	than 10			not less 30 minutes	
	After 30 minutes	1,0	N/mm²	± 0,2 N/mm <sup>2</sup>	minutes	minutes				
Tensile adhesion strength after 6 hours, UNE-EN 12004-2:2017 It. 8.3.3.2			N/mm²			≥ 0,5 N/mm <sup>2</sup> after not more than 6h				
Initial tensile adhesion strength, UNE-EN 12004-2:2017 It. 8.3.3.2		1,5	N/mm²	± 0,2 N/mm <sup>2</sup>	≥ 0,5 N/mm²		≥ 1 N/mm²			
Tensile adhesion strength after water immersion, UNE-EN 12004-2:2017 It. 8.3.3.3		1,0	N/mm²	± 0,2 N/mm²	≥ 0,5 N/mm²			≥ 1 N/mm²		
Tensile adhesion strength after heat ageing, UNE-EN 12004-2:2017 It. 8.3.3.4		1,7	N/mm²	± 0,2 N/mm²	≥ 0,5 N/mm²			≥ 1 N/mm²		
Tensile adhesion strength after freeze-thaw cycles, UNE-EN 12004-2:2017 It. 8.3.3.5		1,3	N/mm²	± 0,2 N/mm²	≥ 0,5 N/mm²			≥ 1 N/mm²		
Determination of slip, UNE-EN 12004- 2:2017 It. 8.2		0,5	mm	± 0,06 mm			≤ 0,5 mm			
Determination of transverse deformation for cementitious adhesives, UNE-EN 12004-2:2017 It. 8.6		2,5	mm		-	- S1: Value of deformation ≥2 ollowing classes of adhesives are defined:		•		

<sup>(1)</sup> Provided by petitioner



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