

SIMPLIFIED TESTS REPORT

No. 23/32304440-S

Bellaterra, 31st may 2023	Product:
TIKA CONSTRUCTION CHEMICALS L.L.C Hawari Rd. Benghazi Libya	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

Tests date: from 15/04/2023 to 26/05/2023				Page 1 of 1			
Added water⁽¹⁾: 25,0%	TEST RESULTS	TEST UNCERTAINTY	NORMAL SETTING ADHESIVES 1a (C1)	FAST SETTING ADHESIVES 1b (F)	Special characteristics 1c (T)	Additional characteristics	
Maturing time⁽¹⁾: 5 minutes						High adherence 1d (C2)	Extended open time 1e (E)
1- Determination of open time, UNE-EN 12004-2:2017 It. 8.1	After 5 minutes	-- N/mm ²	--	≥ 0,5 N/mm ²	≥ 0,5 N/mm ²	--	≥ 0,5 N/mm ² after not less 30 minutes
	After 10 minutes	-- N/mm ²	--	After not less than 20 minutes	After not less than 10 minutes		
	After 20 minutes	1,5 N/mm²	± 0,2 N/mm ²				
	After 30 minutes	1,0 N/mm²	± 0,2 N/mm ²				
Tensile adhesion strength after 6 hours, UNE-EN 12004-2:2017 It. 8.3.3.2	-- N/mm ²	--	--	≥ 0,5 N/mm ² 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 ²	≥ 0,5 N/mm ²		--	≥ 1 N/mm ²	
Tensile adhesion strength after water immersion, UNE-EN 12004-2:2017 It. 8.3.3.3	1,0 N/mm²	± 0,2 N/mm ²	≥ 0,5 N/mm ²	--	--	≥ 1 N/mm ²	--
Tensile adhesion strength after heat ageing, UNE-EN 12004-2:2017 It. 8.3.3.4	1,7 N/mm²	± 0,2 N/mm ²	≥ 0,5 N/mm ²		--	≥ 1 N/mm ²	
Tensile adhesion strength after freeze-thaw cycles, UNE-EN 12004-2:2017 It. 8.3.3.5	1,3 N/mm²	± 0,2 N/mm ²	≥ 0,5 N/mm ²		--	≥ 1 N/mm ²	
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	--	According to his value the following classes of adhesives are defined:		- S1: Value of deformation ≥2,5 mm and <5mm - S2 : Value of deformation ≥ 5mm		

⁽¹⁾ Provided by petitioner

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JOAN MARTINEZ EGUA

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

Firmado digitalmente por
RAUL MARTIN GARCIA

Technical Manager
LGAI Technological Center, S.A.

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SIMPLIFIED TESTS REPORT

No. 23/32302701-S

Bellaterra, 31st may 2023	Product:
TIKA CONSTRUCTION CHEMICALS L.L.C Hawari Rd. Benghazi Libya	Xtrem XtraCol C2TE
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

REQUESTED TESTS AND SUMMARY OF RESULTS

Tests date: from 15/04/2023 to 26/05/2023				Page 1 of 1			
Added water⁽¹⁾: 25,0%	TEST RESULTS	TEST UNCERTAINTY	NORMAL SETTING ADHESIVES 1a (C1)	FAST SETTING ADHESIVES 1b (F)	Special characteristics 1c (T)	Additional characteristics	
Maturing time⁽¹⁾: 5 minutes						High adherence 1d (C2)	Extended open time 1e (E)
1- Determination of open time, UNE-EN 12004-2:2017 It. 8.1	After 5 minutes	-- N/mm ²	--	≥ 0,5 N/mm ²	≥ 0,5 N/mm ²	--	≥ 0,5 N/mm ² after not less 30 minutes
	After 10 minutes	-- N/mm ²	--	After not less than 20 minutes	After not less than 10 minutes		
	After 20 minutes	1,0 N/mm²	± 0,2 N/mm ²				
	After 30 minutes	0,5 N/mm²	± 0,2 N/mm ²				
Tensile adhesion strength after 6 hours, UNE-EN 12004-2:2017 It. 8.3.3.2	-- N/mm ²	--	--	≥ 0,5 N/mm ² after not more than 6h	--	≥ 1 N/mm ²	--
Initial tensile adhesion strength, UNE-EN 12004-2:2017 It. 8.3.3.2	1,4 N/mm²	± 0,2 N/mm ²	≥ 0,5 N/mm ²			≥ 1 N/mm ²	
Tensile adhesion strength after water immersion, UNE-EN 12004-2:2017 It. 8.3.3.3	1,1 N/mm²	± 0,2 N/mm ²	≥ 0,5 N/mm ²	--		≥ 1 N/mm ²	
Tensile adhesion strength after heat ageing, UNE-EN 12004-2:2017 It. 8.3.3.4	1,2 N/mm²	± 0,2 N/mm ²	≥ 0,5 N/mm ²			≥ 1 N/mm ²	
Tensile adhesion strength after freeze-thaw cycles, UNE-EN 12004-2:2017 It. 8.3.3.5	1,6 N/mm²	± 0,3 N/mm ²	≥ 0,5 N/mm ²			≥ 1 N/mm ²	
Determination of slip, UNE-EN 12004-2:2017 It. 8.2	0,2 mm	± 0,02 mm	--	--	≤ 0,5 mm	--	--
Determination of transverse deformation for cementitious adhesives, UNE-EN 12004-2:2017 It. 8.6	-- mm	--	According to his value the following classes of adhesives are defined:		- S1: Value of deformation ≥2,5 mm and <5mm - S2 : Value of deformation ≥ 5mm		

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LGAI TECHNOLOGICAL CENTER, S.A.

Firmado digitalmente por RAUL MARTIN GARCIA

Technical Manager
LGAI Technological Center, S.A.

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SIMPLIFIED TESTS REPORT

No. 23/32301337-S

Bellaterra, 13th february 2023	Product:
TIKA CONSTRUCTION CHEMICALS L.L.C Hawari Rd. Benghazi Libya	XtraCol C1TE
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⁾ : C1TE

REQUESTED TESTS AND SUMMARY OF RESULTS

Tests date: from 14/12/2022 to 19/01/2023				Page 1 of 1					
Added water⁽¹⁾: 24,0%	TEST RESULTS	TEST UNCERTAINTY	NORMAL SETTING ADHESIVES 1a (C1)	FAST SETTING ADHESIVES 1b (F)	Special characteristics 1c (T)	Additional characteristics			
Maturing time⁽¹⁾: 5 minutes						High adherence 1d (C2)	Extended open time 1e (E)		
1- Determination of open time, UNE-EN 12004-2:2017 It. 8.1	After 5 minutes	-- N/mm ²	--	≥ 0,5 N/mm ²	≥ 0,5 N/mm ²	--	≥ 0,5 N/mm ² after not less 30 minutes		
	After 10 minutes	-- N/mm ²	--	After not less than 10 minutes	After not less than 10 minutes		--		
	After 20 minutes	1,8 N/mm²	± 0,3 N/mm ²	After not less than 20 minutes					
	After 30 minutes	1,4 N/mm²	± 0,2 N/mm ²						
Tensile adhesion strength after 6 hours, UNE-EN 12004-2:2017 It. 8.3.3.2	-- N/mm ²	--	--	≥ 0,5 N/mm ² 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 ²	≥ 0,5 N/mm ²		--	≥ 1 N/mm ²			
Tensile adhesion strength after water immersion, UNE-EN 12004-2:2017 It. 8.3.3.3	0,6 N/mm²	± 0,2 N/mm ²	≥ 0,5 N/mm ²	--	--	≥ 1 N/mm ²	--		
Tensile adhesion strength after heat ageing, UNE-EN 12004-2:2017 It. 8.3.3.4	1,0 N/mm²	± 0,2 N/mm ²	≥ 0,5 N/mm ²		--	≥ 1 N/mm ²			
Tensile adhesion strength after freeze-thaw cycles, UNE-EN 12004-2:2017 It. 8.3.3.5	1,1 N/mm²	± 0,2 N/mm ²	≥ 0,5 N/mm ²		--	≥ 1 N/mm ²			
Determination of slip, UNE-EN 12004-2:2017 It. 8.2	0,2 mm	± 0,04 mm	--	--	--	≤ 0,5 mm	--		
Determination of transverse deformation for cementitious adhesives, UNE-EN 12004-2:2017 It. 8.6	-- mm	--	According to his value the following classes of adhesives are defined:		- S1: Value of deformation ≥2,5 mm and <5mm - S2 : Value of deformation ≥ 5mm				

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JOAN MARTINEZ EGUA

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

Firmado digitalmente por
RAUL MARTIN GARCIA

Technical Manager
LGAI Technological Center, S.A.

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SIMPLIFIED TESTS REPORT

No. 23/32302702-S

Bellaterra, 31st may 2023	Product:
TIKA CONSTRUCTION CHEMICALS L.L.C Hawari Rd. Benghazi Libya	Xtrem SuperCol 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

Tests date: from 15/04/2023 to 26/05/2023				Page 1 of 1			
Added water⁽¹⁾: 25,0%	TEST RESULTS	TEST UNCERTAINTY	NORMAL SETTING ADHESIVES 1a (C1)	FAST SETTING ADHESIVES 1b (F)	Special characteristics 1c (T)	Additional characteristics	
Maturing time⁽¹⁾: 5 minutes						High adherence 1d (C2)	Extended open time 1e (E)
1- Determination of open time, UNE-EN 12004-2:2017 It. 8.1	After 5 minutes	-- N/mm ²	--	≥ 0,5 N/mm ²	≥ 0,5 N/mm ²	--	≥ 0,5 N/mm ² after not less 30 minutes
	After 10 minutes	-- N/mm ²	--	After not less than 20 minutes	After not less than 10 minutes		
	After 20 minutes	1,5 N/mm²	± 0,2 N/mm ²				
	After 30 minutes	1,0 N/mm²	± 0,2 N/mm ²				
Tensile adhesion strength after 6 hours, UNE-EN 12004-2:2017 It. 8.3.3.2	-- N/mm ²	--	--	≥ 0,5 N/mm ² 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 ²	≥ 0,5 N/mm ²		--	≥ 1 N/mm ²	
Tensile adhesion strength after water immersion, UNE-EN 12004-2:2017 It. 8.3.3.3	1,0 N/mm²	± 0,2 N/mm ²	≥ 0,5 N/mm ²	--	--	≥ 1 N/mm ²	--
Tensile adhesion strength after heat ageing, UNE-EN 12004-2:2017 It. 8.3.3.4	1,7 N/mm²	± 0,2 N/mm ²	≥ 0,5 N/mm ²		--	≥ 1 N/mm ²	
Tensile adhesion strength after freeze-thaw cycles, UNE-EN 12004-2:2017 It. 8.3.3.5	1,3 N/mm²	± 0,2 N/mm ²	≥ 0,5 N/mm ²		--	≥ 1 N/mm ²	
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	--	According to his value the following classes of adhesives are defined:		- S1: Value of deformation ≥2,5 mm and <5mm - S2 : Value of deformation ≥ 5mm		

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Firmado digitalmente por
JOAN MARTINEZ EGGEA

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

Firmado digitalmente por
RAUL MARTIN GARCIA

Technical Manager
LGAI Technological Center, S.A.

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