

Via dell'Industria, n. 6 - Tel. 0831/330444 Pbx - 0831/304578 - Fax 0831/330455 www.tecnoprove.it - e-mail: labostuni@tecnoprove.com - labostuni@tecnoprove.it

P.IVA n. 01463240745 Cod. Fisc. 00425790771 Reg. Imprese di Brindisi n. 00425790771 Rep. Econ. Amm. 67079 Capitale Sociale 28.000 EURO

Ostuni, 09.12.2019

TEST REPORT ML032/19	
Ref. Entry report	n. 503 of 25.10.2019

CLIENT	Company NIKKOLOR ITALIA s.r.l. Viale Vittorio Veneto, 186 96014 Floridia (SR) Italy	
SUBJECT OF THE	a) Test methods for screed materials - Part 2: Determination of the flexural and compressive strength.	
TECTC	LINI EN 12002 2	

SUBJECT OF THE	a) Test methods for screed materials - Part 2:	
	Determination of the flexural and compressive strength.	
TESTS	UNI EN 13892-2	
	b) Test methods for screed materials - Part 8:	
	Determination of the bond strength. UNI EN 13892-8	
	c) Rapid deformation tests (impact resistance) - Part 1:	
	Test with falling mass with large surface punch.	
	UNI EN ISO 6272-1	
	d) Paint products and systems for external masonry and concrete -	
	Determination and classification of the degree of transmission	
	of liquid water (permeability). UNI EN 1062-3	

TYPE SAMPLE DECLARED BY THE CUSTOMER:	Continuous coating system for floors and walls. Composed of three products: - BETON KA + KB (primer) - CEMENTO 3D (finish) - DECOR FINISH (transparent paint)
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DELIVERY DATE OF SAMPLES	11.11.2019	

DATE OF END OF TESTS 05.12.2019

(this test report consists of 5 pages)

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TEST RESULTS

TEST METHODS OF SCREED MATERIALS - PART 2: DETERMINATION OF THE STRENGTH TO FLEXION AND COMPRESSION.

(UNI EN 13892-2)

Laboratory temperature	21 °C
Relative humidity of the laboratory	65 %
Tests carried out on the sample	CEMENTO 3D
Specimen dimensions	40x40x160 mm

Flexural str		rength	Compressive	ressive strength	
Audition	Load maximum (Ff) [N]	Resistance (Rf) [N/mm²]	Load maximum (Fc)	Resistance (Re) [N/mm²]	
1	248,3	5,82	2847,0 2891,0	17,79 18,07	
2	250,4	5,87	2826,0 2951,0	17,66 18,44	
3	225,4	5,28	2762,0 3009,0	17,26 18,81	
Average	241,4	5,66	2881,0	18,01	

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METHOD OF TESTING SCREED MATERIALS - PART 8: DETERMINATION OF THE ADHESION FORCE.

(UNI EN 13892-8)

Laboratory temperature	21 °C	
Relative humidity of the lab	oratory 65 %	
Tests carried out on the application system in the following way:	1st coat: BETON KA + KB (primer) 1 layer 2nd coat after 24 hours: 3D CEMENT (2-layer finish) 3rd coat after 28 hours: DECOR FINISH (transparent paint) 3 layers	
Specimen size	50x50 mm	

Audition n°	Test area (mm²)	Force applied (N)	Resistance to adhesion (Mpa)	Type of posting
1	2501,0	2546	1,02	50%X/Y - 50%Y
2	2500,0	2265	0,91	100%X/Y
3	2501,0	2162	0,86	100%X/Y
4	2498,0	2766	1,11	80%X/Y - 20%Y
5	2500,0	2933	1,17	50%X/Y - 50%Y
Average	2500,0	2534	1,01	

Type of fracture X/Y	Type of fracture Y	Type of fracture X
Cohesion Fracture - Fracture at the interface between the multilayer system and the support. The test value is equal to the bond strength	Cohesion Fracture - Fracture within the multilayer system itself. The bond strength is greater than the test value	Cohesion fracture - Fracture of the support. The bond strength is greater than the test value
3		
Legend 1 Extraction plates; 2 Layer of adhesive: 3 Multilayer system: 4 Concrete substrate		

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RAPID DEFORMATION TESTS (IMPACT RESISTANCE) - PART 1: TEST WITH FALLING MASS WITH LARGE SURFACE PUNCH.

(UNI EN ISO 6272-1)

Laboratory temperature	21 °C
Relative humidity of the lab	oratory 65 %
Tests carried out on the application system in the following way: 1st coat: BETON KA + KB (primer) 1 layer 2nd coat after 24 hours: 3D CEMENT (2-layer finish) 3rd coat after 28 hours: DECOR FINISH (transparent paint) 3 layers	
Specimen size	300x300 mm

	Load	1,02353 kg
Height (m)		Nm
0,025		0,25
0,050		0,50
0,075		0,75
0,100		1,00
0,125		1,26
0,150		1,51
0,175		1,76
0,200		2,01
0,225		2,26
0,250		2,51
0,275		2,76
0,300		3,01 ⁽¹⁾
(1) Failure of the	specimen sur	face





Laboratorio Tecnologico

della Tecnoprove s.r.l.
Autorizzato con Decreto Ministero LL.PP. n. 25749 del 5.8.1985 ai sensi art. 20 L. 1086/71
Iscritto all'Albo dei Laboratori autorizzati per la Ricerca Scientifica e Tecnologica con D.M. del 23.11.88 72017 **OSTUNI** (BR)

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PAINTS AND VARNISHES - PRODUCTS AND SYSTEMS FOR PAINTING EXTERNAL WALLS AND CONCRETE. DETERMINATION AND CLASSIFICATION OF THE DE-GREE OF TRANSMISSION OF LIQUID WATER (PERMEABILITY)

(UNI EN 1062-3)

Laboratory temperature	21 °C
Relative humidity of the lab	oratory 65 %
Tests carried out on the application system in the following way:	1st coat: BETON KA + KB (primer) 1 layer 2nd coat after 24 hours: 3D CEMENT (2-layer finish) 3rd coat after 28 hours: DECOR FINISH (transparent paint) 3 layers
Specimen size	Area 240 cm ² Overall height between multilayer system and support: 2,8 mm

1 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 2 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 3 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000		h ^{0,5}	h ^{0,5}	h ^{0,5}	h ^{0,5}	h ^{0,5}	h ^{0,5}
0,45 0,71 1,00 1,41 2,00 4,90 kg/m² kg/m² kg/m² kg/m² kg/m² kg/m² 1 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 2 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 3 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 Average 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 Degree of transmission of liquid water "w" (kg/m²*h⁰.5) 0,0001	Audition	0,2 h	0,5 h	1 h	2 h	4 h	24 h
1 0,0000 0,0000 0,0000 0,0001 0,0001 2 0,0000 0,0000 0,0000 0,0001 0,0001 3 0,0000 0,0000 0,0000 0,0001 0,0001 Average 0,0000 0,0000 0,0000 0,0001 0,0001 Degree of transmission of liquid water "w" (kg/m²*h⁰,5) 0,0001	Audition	0,45	0,71	1,00	1,41	2,00	4,90
2 0,0000 0,0000 0,0000 0,0001 0,0001 3 0,0000 0,0000 0,0000 0,0001 0,0001 Average 0,0000 0,0000 0,0000 0,0001 0,0001 Degree of transmission of liquid water "w" (kg/m²*h⁰.5) 0,0001		kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²	kg/m ²
3 0,0000 0,0000 0,0000 0,0000 0,0001 0,0000 Average 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 Degree of transmission of liquid water "w" (kg/m²*h⁰,5) 0,0001	1	0,0000	0,0000	0,0000	0,0000	0,0001	0,0001
Average 0,0000 0,0000 0,0000 0,0000 0,0001 0,0001 Degree of transmission of liquid water "w" (kg/m²*h²,5) 0,0001	2	0,0000	0,0000	0,0000	0,0000	0,0001	0,0001
Degree of transmission of liquid water "w" (kg/m ² *h ^{0,5}) 0,0001	3	0,0000	0,0000	0,0000	0,0000	0,0001	0,0001
Degree of transmission of liquid water "w" (kg/m²*h ^{0,5}) 0,0001	Average	0.0000	0.0000	0.0000	0.0000	7	0.0001
							0,000
0,0002 Provino C							
							001 Provino A

Il Tecnico Sperimentatore nzo Parisi)

Direzione del Laboratolio

Pagina 5 di 5 del Rapporto di Prova ML 032/19 del 09.12.2019 È vietata la riproduzione del rapporto di prova o di singole parti senza l'approvazione del laboratorio Tecnoprove s.r.l.