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Bellaterra: 20th May 2008
Reference number: ***08 / 32304075***
Petitioner: ***DRIZORO, S.A.***
N.I.F.: A-28498038
C/ Primavera 50-52 Parque Industrial Las Monjas
28850 TORREJÓN DE ARDOZ (MADRID)

TEST REPORT

Registry code: 08-0431

MATERIAL RECEIVED:

At 25th February 2008, a sample of screed material (self-levelling mortar) based on synthetic resins and composed of tree compounds has been received at Applus+CTC with the following reference:

SCREED MATERIAL
MAXEPOX FLOOR

TESTS REQUIRED:

SCREED MATERIAL AND FLOOR SCREEDS, UNE–EN 13813:2003

1- Methods of test for screed materials - Part 2: Determination of flexural and compressive strength, UNE–EN 13892-2:2003.
2- Methods of test for screed materials - Part 8: Determination of bond strength, UNE–EN 13892-8.
3- Paints and varnishes - Rapid-deformation (impact resistance) tests, UNE-EN ISO 6272
4- Plastics - Determination of flexural properties, UNE-EN ISO 178.
5- Methods of test for screed materials - Part 4: Determination of wear resistance-BCA, UNE–EN 13892-4.

DATES FOR TESTS: From 25/02/2008 to 05/05/2008.

RESULTS: See attached documents

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Results showed herein correspond exclusively to received material at Applus+CTC and it has been tested according with the standard methods given in this document	
Page 1. This document is composed of **4** pages which ***0*** are annexes	

RESULTS:

Mixing ratio	Component A: 4 parts Component B: 1 part	= Component AB
	Component AB: 1 part / Component C: 1 part	

For mixing, 4 parts of component A and 1 part of component B are mixed and then, 1 part of component C is added to the component AB.

1- Compressive and flexural strengths, UNE-EN 13892-2

Once mortar is mixed, specimens has been made and cured at 23 ºC & 50 % of R.H. for 1 day into the moulds and 28 days out of the moulds, respectively.

Specimen	Curing time (days)	FLEXURAL STRENGTH		COMPRESSIVE STRENGTH	
		Ultimate Stress (N/mm^2)	Average Value (N/mm^2)	Ultimate Stress (N/mm^2)	Average Value (N/mm^2)
1	28	34,8	***36,7***	68,9	***69,0***
				69,4	
2	28	32,5		69,4	
				67,9	
3	28	42,7		68,7	
				69,8	

CLASSES OF COMPRESSIVE STRENGTH FOR SCREED MATERIALS												
Class	***C5***	***C7***	***C12***	***C16***	***C20***	***C25***	***C30***	***C35***	***C40***	***C50***	***C60***	***C70***	***C80***
Compressive Strength (N/mm^2)	5	7	12	16	20	25	30	35	40	50	60	70	80

CLASSES OF FLEXURAL STRENGTH FOR SCREED MATERIALS													
Class	***F1***	***F2***	***F3***	***F4***	***F5***	***F6***	***F7***	***F10***	***F15***	***F20***	***F30***	***F40***	***F50***
Flexural Strength (N/mm^2)	1	2	3	4	5	6	7	10	15	20	30	40	50

2- Bond strength, UNE-EN 13892-8

Test Specimen	*Tensile Strength (N/mm^2)*	*Type of Break*
1	3,1	X / Y
2	4,1	X / Y
3	4,0	X / Y
4	4,5	X / Y
5	4,0	X / Y
6	3,9	X / Y
Average	***3,9***	

Type of break
X: Break by cohesion of concrete substrate.
X/Y: Break between substrate and mortar tested.
Y: Break by cohesion of mortar tested.
Z: Break between adhesive layer and the plate with the pulling head (failure).

CLASSES OF BOND STRENGTH FOR SCREED MATERIALS					
Class	***B 0,2***	***B 0,5***	***B 1,0***	***B 1,5***	***B 2,0***
Tensile Strength (N/mm^2)	0,2	0,5	1,0	1,5	2,0

3- Impact resistance, UNE-EN ISO 6272

A layer of 10 mm thickness of screed material is applied on a concrete surface. Impact tests are carried out on the surface using a falling weight of spherical shape with a diameter of 20 mm and a mass of 1.000 g.

Falling height at what the first fissures are observed	> 1.500 mm*

* NO fissures are produced at this height

Diameter of signal produced at 1.500 mm high	10,09 mm
IR value (Impact Resistance) for 1.500 mm high	14,7 Nm

4- Determination of flexural properties, UNE-EN ISO 178

Test Specimen	*Elasticity Modulus (kN/mm^2)*
1	5,5
2	6,9
3	6,0
4	6,5
5	5,9
Average	***6,2***

CLASSES OF ELASTICITY MODULUS FOR SCREED MATERIALS							
Class	*E1*	*E2*	*E5*	*E10*	*E15*	*E20*	*Bigger & multiple of 5*
Elasticity Modulus (kN/mm^2)	1	2	5	10	15	20	25-30, etc.

5- Determination of wear resistance-BCA, UNE–EN 13892-4

Test Specimen	*Wear resistance BCA (µm)*
1	10
2	10
3	10
Average	***10***

CLASSES OF WEAR RESISTANCE FOR SCREED MATERIALS					
Class	*AR6*	*AR4*	*AR2*	*AR1*	*AR0,5*
Maximum depth of wear (µm)	600	400	200	100	50

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PRODUCTO ENSAYADO

INFORME DE ENSAYO

Nº 08/32304075

Bellaterra, 20th May 2008

DRIZORO, S.A. ***C/ Primavera 50-52 Parque Industrial Las Monjas 28850 TORREJÓN DE ARDOZ (MADRID)***	***SCREED MATERIAL*** ***MAXEPOX FLOOR***

CEMENT-BASED FLOOR SCREED MORTAR according to UNE-EN 13813:2003.		***Results***
Mixing ratio		***Component A: 4 parts***
		Component B: 1 part
		Component AB: 4 parts
		Component C: 1 part
1.- Compressive and flexural strengths, UNE-EN 13892-2	Flexural strength Compressive strength	***36,7 N/mm²*** ***69,0 N/mm²***
2.- Bond strength, UNE-EN 13892-8		***3,9 N/mm²***
3.- Impact resistance, UNE-EN ISO 6272 Falling height wherein the first fissures are observed and diameter produced at this height		***>14,7 Nm*** ***No effect at 1.500 mm*** ***Crater diameter: 10,09 mm***
4.- Determination of flexural properties, UNE-EN ISO 178		***6,2 kN/mm²***
5.- Determination of wear resistance-BCA, UNE–EN 13892-4		***10***

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