

TESTING REPORT MICROQUARZ

RECEIVED MATERIAL:

On May 29th of 2019, has been received in Applus Laboratories different products to make a microcement system about different supports, with the next reference according to the petitioner:

MICROQUARZ SYSTEM

Requested tests:

Mortars for screeds and floor finishes, UNE-EN 13813:2014

1. Wear resistance BCA, UNE-EN 13892-4:2003
2. Impact resistance, UNE-EN ISO 6272-1:2012
3. Surface hardness, UNE-EN 13892-6:2003
4. Adherence resistance, UNE-EN 13892-8:2003

Date of the tests: From 05/29/2019 to 07/19/2019.

Results: See next pages.

The system is done as described next:

- Primer: apply PrimerQuarz with roller.
- While PrimerQuarz is fresh, the mesh is spread, and MicroQuarz Hard Base is applied as flush.
- Once dry, MicroQuarz is sanded (80 grit sandpaper) and vacuum the surface.
- MicroQuarz Base is applied flush, let it dry for 2 hours, sand it (sandpaper 60 grit) and vacuum the surface.
- MicroQuarz Fine is applied in a flush way, let it dry for 1 hour, sand it (120 grit sandpaper) and vacuum the surface.
- Primer Finish is applied with a roller in two coats (40 minutes between coats) and let dry for 2 hours before the next step.
- A first coat of Finish W TRP Radiant is applied with a roller (100g Comp. A+ 30g Comp. B and one mixed 30g water).
- After 6 hours, a second coat of Finish W TRP is applied.

1. Wear resistance BCA, UNE-EN 13892-4:2003

Probe n°	Wear resistance BCA
1	40
2	40
3	40
Average	40

Type	Probe n°				
	AR6	AR4	AR2	AR1	AR0,5
Maximum wear depth	600	400	200	100	50

2. Impact resistance, UNE-EN ISO 6272-1:2012

Impacts have been made on the surface through a head that has a spherical shape with a diameter of 20 mm, with a free mass of 1000g.

Height of fall at which the first cracks are observed → >1500 mm*

*No cracks occur at this point.

Diameter of the footprint produced at 1500mm → 9,8mm

IR value (wear resistance) to 1500mm of height → 14,7 Nm

3. Surface hardness, UNE-EN 13892-6:2003.

Probe nº	Indentation footprint depth (t) (mm)	Surface hardness (N/mm ²)
1	0,17	94
2	0,18	88
3	0,19	84
Average		89

Surface hardness UNE-EN 138							
Type	SH30	SH40	SH50	SH70	SH100	SH150	SH200
Surface hardness N/mm ²	30	40	50	70	100	150	200

4. Adherence resistance, UNE-EN 13892-8:2003

Probe nº				
1	0,48	X	1,43	Y
2	0,51	X	1,13	Y
3	0,60	X	1,31	Y
4	0,40	X	1,45	Y
5	0,45	X	1,24	Y
Average	0,5		1,3	

Type of breakage:

X: Support cohesion breakage

Y: Cohesion breakage of the tested product

X/Y: Breakage between the support and the tested product

Surface hardness UNE-EN 138					
Type	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

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