

Bellaterra : 29th July 2015
Dossier number : **15/10175-0903**
Petitioner Reference : **SINTECNO SA**
N.I.F:EL094080996 4 ANAXAGORA STR.
P.O. BOX 202
P.C. 19400 KOROPI ATTIKA

TEST REPORT

RECEIVED MATERIAL:

On 10th April 2015, a sample of elasticand flexible two component waterproofing mortar, was received at Applus+LGAI, with the following references, according to the Petitioner:

SINTOSEAL FLEX

REQUESTED TESTS:

1- Influence of cementitious products on water intended for human consumption: Migration of substances, UNE-EN 14944-1:2008.

TEST DATE: From 14/04/2015 to 27/07/2015.

RESULTS : See attached pages.

Responsible for Construction Materials
LGAI Technological Center S.A.

Technician Responsible
LGAI Technological Center S.A.

The results included in this document refer exclusively to the indicated materials and has been tested according to the specifications given.

The reproduction of this document is only authorised if it is made in its totality. Electronically signed reports in digital format are considered original documents, as well as its electronic copies. Their printing has no legal validity.

The present document consists of **4** pages long, whereof **0** are appendixes

Dossier number 15/10175-0903	Page 2
SINTECNO SA	SINTOSEAL FLEX

RESULTS:

1- Influence of cementitious products on water intended for human consumption: Migration of substances, UNE-EN 14944-1:2008.

- Extraction environment: Chlorinated water containing 1 ppm chlorine.
- Migration temperature: 40°C
- Contact time: The sample is washed several times, as instructed in standard EN 14944-3. Next, three 72-hour cycles are performed, thereby obtaining three testing samples.

Parameters are analysed during the initial 72-hour cycle; only the parameters that are beyond the limits of RD 140/2003 in the first cycle are repeated in the second and third cycle.

- Volume of the sample: 4 litre for each of the 72-hour cycles.
- Contact surface: 130 cm²
- Surface/volume ratio: 130 cm²/ lt.

Product Features:

PARAMETER	RESULT	LEGISLATIVE NORM
Colour (mg/Pt/Co)	< 5	≤ 15
Odour: Dilution Rate	1	≤ 3
Conductivity (µS/cm) at 20°C	271,0	≤ 2500
Reaction at 20 ppm chlorine	No changes	No anomalous changes

Control of content:

PARAMETER	RESULT	LEGISLATIVE NORM
Turbidity (UNF)	First migration	≤ 5
	Second migration	
pH (upH)	7,97	≥ 6,5 ≤ 9,5
Oxidizability (mg O ₂ / l)	2,85	≤ 5
Total Organic Carbon (TOC) (mg/l)	4,15	No changes
Combined Residual Chlorine (mg/l)	< 0,10	≤ 2
Free Residual Chlorine (mg/l)	< 0,10	≤ 1
Chlorides (mg/l)	60,8	≤ 250
Ammonia (mg/l)	0,12	≤ 0,5
Cyanides (mg/l)	< 0,02	≤ 0,05
Sulphates (mg/l)	<2	≤ 250
Fluorides (mg/l)	< 0,1	≤ 1,5
Nitrates (mg/l)	< 0,5	≤ 50
Nitrites (mg/l)	< 0,01	≤ 0,5
Sodium (mg/l)	47,6	≤ 200

Dossier number 15/10175-0903	Page 3
SINTECNO SA	SINTOSEAL FLEX

Control of content:

PARAMETER	RESULT	LEGISLATIVE NORM
Volatile organic compounds		
- 1,2 Dichlorethane (µg/l)	< 0,50	≤ 3
- Trichlorethane + tetrachlorethane (µg/l)	< 1,00	≤ 10
Aluminium (Al) (µg/l)	40,6	≤ 200
Antimony (Sb) (µg/l)	< 1	≤ 5
Arsenic (As) (µg/l)	5,66	≤ 10
Boron (B) (µg/l)	< 10	≤ 1000
Cadmium (Cd) (µg/l)	< 0,05	≤ 5
Copper (Cu) (µg/l)	< 1	≤ 2000
Chromium (Cr) (µg/l)	< 1	≤ 50
Iron (Fe) (µg/l)	1,04	≤ 200
Manganese (Mn) (µg/l)	< 1	≤ 50
Mercury (Hg) (µg/l)	< 0,1	≤ 1
Nickel (Ni) (µg/l)	< 1	≤ 20
Lead (Pb) (µg/l)	< 0,5	≤ 25
Selenium (Se) (µg/l)	< 0,5	≤ 10
Benzene (µg/l)	< 0,25	≤ 1
Polycyclic Aromatic Hydrocarbons		
- Benzopyrene (µg/l)	< 0,001	≤ 0,01
- Sum of Polycyclic Aromatic Hydrocarbons (µg/l)	< 0,041	≤ 0,10
Trihalomethanes (µg/l)	17,8	≤ 100
Pesticides		
- Aldrin (µg/l)	< 0,020	≤ 0,03
- Dieldrin (µg/l)	< 0,020	≤ 0,03
- Heptachlorine (µg/l)	< 0,020	≤ 0,03
- Heptachlorine epoxide (µg/l)	< 0,020	≤ 0,03
Total pesticides (µg/l)	< 0,495	≤ 0,5
Acrylamide (µg/l)	< 0,07	≤ 0,10
Epichlorhidrine (µg/l)	< 0,07	< 0,10
Vinyl chloride (µg/l)	< 0,20	< 0,50

Dossier number 15/10175-0903	Page 4
SINTECNO SA	SINTOSEAL FLEX

Conclusion:

**The Material complies with the requirements of the RD 140/2003,
Test method UNE EN 14944-1**

Service Quality Assurance

Applus+, guarantees that this work has been made in accordance with our Quality and Sustainability System, fulfilling the contractual conditions and legal norms.

Within our improvement program we would be grateful if you would send us any commentary that you consider opportune, to the person in charge who signs this document, or to the Quality Manager of Applus+, in the following e-mail address: satisfaccion.cliente@appluscorp.com