

## TECNICAL REPORT

TEST REPORT 15042014

**Company:** Pinturas Kilnher S.L.  
**Product test:** Project Cork ECORK  
**Tecnical data report:** 15-04-2014

### TEST

- Capillary absorption and water permeability UNE 1062-3
- Adhesion on concrete UNE 1542
- Determination of thermal resistance UNE 12667



### PRODUCT DESCRIPTION:

Decorative coating for thermal insulation in interior and exterior applicable by projection.

## 1. ADHESION TEST (CONCRETE)

Test carried out according to the procedure of the UNE-EN 1542-2000: "products and systems for the protection and repair of concrete structures. Test methods. Determination of adhesion by direct traction"

### PREPARATION OF TEST SPECIMEN

the projected cork sample was applied on a standardized concrete specimen, in the dry state, of dimensions 300mm x 300 mm x 100 mm, with the surface prepared by shot blasting.

The specimens were allowed to dry for 20 days under normal laboratory conditions (23 °C - 50% relative humidity)

ID	TUBE 1	TUBE 2	TUBE 3	TUBE 4	TUBE 5
Break load (N)	1989	1538	1798	1807	1839
Adhesion (MPa)	1.0	0.8	0.9	0.9	0.9
Break Type	B	B	B	B	B
Medium Adhesion: 0.9 +/- 0,1 MPa 04					

### BREAK TYPE:

A: cohesive break of the concrete support

A/B: adhesive break between the coating and the concrete support

B: cohesive breakage of the coating

## 2. CAPILLARY ABSORPTION AND WATER PERMEABILITY

Test carried out according to the procedure of the UNE-EN 1062-3 : "materials and coating systems for masonry and concrete. Determination of water permeability"

### PREPARATION OF TEST SPECIMEN

The coating was applied on three samples of calcium silicate measuring 220 mm x 110 mm, and liquid water permeability greater than 1 kg / (m<sup>2</sup>·h<sup>0.5</sup>)

The specimens were allowed to dry for two weeks under standard laboratory conditions (23 °C - 50% relative humidity), and then subjected to 3 cycles consisting of immersion for 24 h. in drinking water 23 °C, followed by 24 h. drying (23 °C - 50% relative humidity)

Permeability (Kg/(m <sup>2</sup> xh <sup>0.5</sup> )	Tube 1	Tube 2	Tube 3
	0,09	0,08	0,10
Medium permeability 0.09 +/- 0.01 kg/(m <sup>2</sup> xh <sup>0.5</sup> )			

### 3. DETERMINATION OF THERMAL RESISTANCE UNE 12667

Results of the medium thermal conductivity and the medium thermal resistance of the projected cork ECORK

THE MEDIUM THERMAL CONDUCTIVITY	MEDIUM THERMAL RESISTANCE
0.0610 W/m °K	0.1045 m <sup>2</sup> °K/W



Signed by and on behalf of the manufacturer by:

A handwritten signature in black ink, appearing to read 'Andrés Hernández', is written over a horizontal line.

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Andrés Hernández  
Laboratory Technical Director