

Determination of liquid water permeability of Deco Ciré

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Assignment	Determination of liquid water permeability of Deco Ciré
Sample details	The customer sended test specimens to Eurofins Expert Services Oy. The test specimens were coated with Deco Ciré. Under the Deco Ciré coating there was Mira Multicoat waterproofing system. The customer prepared samples will find in appendix 1.
Methods	<p>The test performed with EN 1062-3, determination of liquid water permeability. Substrate of the test specimens was calcium silicate bricks. One side of substrate were coated with Deco Ciré. All other surfaces were closed with waterproof membrane.</p> <p>The test specimens were conditioned 7 days at 23°C, 50 % RH. After that the specimens were comprising following conditions:</p> <ul style="list-style-type: none">- 24 h storage in water at (23±2) °C- 24 h drying at (50±2) °C <p>The cycles above were repeated 3 times. After last cycle test specimens were conditioned 48 h, 50 % RH.</p> <p>Test specimens coated surfaces were immersed in water. Test specimens were weighed 10 min, 30 min, 1 h, 2 h, 3 h, 6 h, and 24 h. After that test specimens were drying 23±2 °C 50 % RH 24 h and then were weighted.</p> <p>The water transmissibility and drying was calculated, $w \text{ kg} / \text{m}^2(24\text{h})^{0,5}$,</p>

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Results

Test results are presented on table 1.

Table 1. Test results of liquid water permeability of Deco Ciré. and drying after water immersion

Coating system	Liquid water permeability, w kg / (m ² x (24h) ^{0.5})			
	Test specimen			
	1	2	3	Mean value
Mira Multicoat + Deco Ciré	0,010	0,009	0,010	0,01
Drying ((23±2) °C 50 % RH (24h)) of test specimens after water immersion				
Mira Multicoat + Deco Ciré	0,006	0,006	0,007	0,01

Espoo, 26.8.2019

Jukka Sulin

Expert

Appendices Preparation of test specimens
 Distribution Customer, electronically approved

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Ving Stone Oy
Deco Cive.

Mira. I.

Mira. Primeri 4180 : 2 gr per kpl.
 -11- Vesierystis 4900 : 24 gr -11-
 milticot.

Deco Cive.
 mikrosemcutti.

- 1) Quartz. : 4. gr per. kpl.
- 2) verkko + 1 kerros : 18 gr -11- 1 kerros
 Deco Cive
- 3) Deco Cive : 14 gr -11- 2 kerros
- 4) Deco Cive : 12 gr -11- 3 kerros
- 5) Pu Lakka. : 3 gr. Per kpl.
 3 kerrosta.

Janne Penttila