

## Assessment Report

### -TRANSLATION-

Document number: (1201/637/18d) – Pan dated 30/04/2019

Client: SCHOMBURG GmbH & Co. KG  
Aquafinstr. 2-8  
32760 Detmold, Germany

Order date: 10/12/2018

Subject of the order: Test of the water impermeability of the mineral sealing slurry **AQUAFIN-1K/AQUAFIN-RB400** against water pressure acting on the reverse side of the coating

Test basis: WTA data sheet 4-6, issue 11.2014/D, “Subsequent sealing of components in contact with the ground”

Material received: 15/01/2019

Sampling: By the client

This test report consists of 3 pages, including the cover sheet.



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## 1 Order

SCHOMBURG GmbH & Co. KG, Detmold, commissioned the Civil Engineering Materials Testing Institute (MPA) in Braunschweig to test the water impermeability of the mineral sealing slurry **AQUAFIN-1K/AQUAFIN-RB400** against water pressure acting on the reverse side of the coating. The test should be carried out in accordance with WTA data sheet 4-6, issue 11.2014/D, “Subsequent sealing of components in contact with the ground”, Section 5.4.3.

## 2 Samples received, testing and test results

On 15/01/2019, SCHOMBURG GmbH & Co. KG handed over a 6 kg bag **AQUAFIN-1K** and a container **AQUAFIN-RB400** to the MPA.

For the assessment of the water impermeability, a test was performed on 3 concrete slabs coated at the MPA and one uncoated concrete slab (20 x 20 x 6 cm<sup>3</sup> each) that were made of water-permeable concrete.

Following an adequate storage period (4 weeks in normal atmosphere), the side surfaces and the area on the reverse side that was to be left uncoated were sealed with an epoxy resin (up to an inner diameter of 100 mm) and saturated with water until the coating was applied. Three slabs were then coated and stored as follows:

- Application of **AQUAFIN-1K** (mixing ratio 6 kg powder : 1.6 kg water). Application quantity approx. 1.8 kg/m<sup>2</sup> (1 mm).
- 2 applications after approx. 2.5 hrs. (2nd application after a waiting period of approx. 18 hrs.) using **AQUAFIN-RB400** (powder : added liquid = 1.5 : 1 PBW). The total application quantity was approx. 2.4 kg/m<sup>2</sup> (2 mm).
- Storage of the samples: 28 days in normal atmosphere.

The water impermeability test was carried out with reference to DIN EN 12390-8. Water pressure was applied to the uncoated area on the reverse side, thereby acting on the back of the coating. The following table shows the test parameters and the test results.

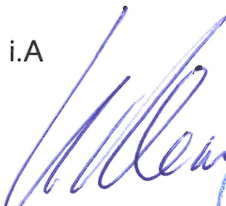
Coating	Water pressure (bar)	Duration of the application (days)	Test results
AQUAFIN-1K/ AQUAFIN-RB400	0.75	28	watertight (no wet patches on the surface), no blistering or cracking
none	0.05	-	leaking within 10 s (leakage of flowing water)


The sealing with the mineral sealing slurry **AQUAFIN-1K/AQUAFIN-RB400** is water impermeable against water pressure acting on the reverse side of the coating up to a water pressure of 0.75 bar (7.5 m water column) under the stated test conditions.

In accordance with WTA data sheet 4-6, issue 11.2014/D, "Subsequent sealing of components in contact with the ground", Section 5.4.3, the internal waterproofing system may be used up to a water pressure of 0.3 bar (3 m water column).


This document is the translated version of the assessment report no. 1201/637/18 dated 30/04/2019. The legally binding text is the aforementioned German assessment report.

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