

## Test Report

- Translation -

Document number: (1200/953/17a) – Pan dated 13/11/2017

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

Order date: 19/09/2017

Subject of the order: Test of the water impermeability and crack bridging ability at low temperatures (-5 °C) on the waterproofing material “AQUAFIN-2K/M-Plus”

Test basis: DIN EN 14891:2017-05  
“Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives – Requirements, test methods, assessment and verification of constancy of performance, classification and designation”

Sampling: by MPA staff

Test period: September to November 2017

This test report consists of 2 pages, including the cover sheet.



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## 1 Order

SCHOMBURG GmbH & Co. KG commissioned the Braunschweig Civil Engineering Materials Testing Institute (MPA) to test the water impermeability and crack bridging ability at low temperatures (-5 °C) on the waterproofing material "AQUAFIN-2K/M-Plus". The tests should be carried out in accordance with DIN EN 14891.

## 2 Test material and manufacture of the test specimen

The waterproofing material "AQUAFIN-2K/M-PLUS" is a 2-component polymer modified cement mortar (CM). For the test procedure, a 35 kg combination container was removed from the manufacturing plant by an employee of the MPA.

The waterproofing material was mixed using the mixing ratio Powder : Liquid component = 2.5 : 1 PBW and produced at the MPA Braunschweig in accordance with the processing instructions provided by the manufacturer:

Test in accordance with DIN EN 14891	Description of test specimen
Water impermeability (A.7)	Base structure: 3 concrete slabs (200 mm x 200 mm x 100 mm) System setup: AQUAFIN-2K/M-Plus (two applications, dry coating thickness: 2.0 mm)
Crack bridging ability at low temperatures -5 °C (A.8.3)	Base structure: 3 mortar prisms (160 mm x 40 mm x 12 mm) System setup: AQUAFIN-2K/M-Plus (two applications, dry coating thickness: 2.0 mm)


After the coating, the test specimens were stored until the test for 28 days under normal conditions.

## 3 Tests and results

The results of the tests performed on the waterproofing material "AQUAFIN-2K/M-Plus", together with details of the test conditions, are summarised in the following table and compared to the existing requirements.


Test in accordance with DIN EN 14891	Test conditions	Test results	Requirements
Water impermeability (A.7)	Test pressure: 1.5 bar Test duration: 7 d	Impermeable to water Increase in mass (g) 2.5/1.4/1.7	Impermeable to water Increase in mass ≤ 20 g
Crack bridging ability at low temperatures -5 °C (A.8.3)	Crack bridging ability after storage under normal conditions for 28 days Test speed: 0.15 mm/min	1.2 mm 1.0 mm 1.0 mm Mean value: 1.07 mm	≥ 0.75 mm

This document is the translated version of Test Report no. (1200/953/17a) – Pan dated 13/11/2017. The legally binding text is the aforementioned German Test Report.

  
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