

## Assessment Report

### - Translation -

Document number: (1200/953/17h) – Pan dated 22/01/2018

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

Order date: 16/08/2017

Subject of the order: CO<sub>2</sub> permeability of the liquid-applied waterproofing material **AQUAFIN-2K/M-PLUS**

Test material received: 18/09/2017

Sampling: by MPA staff

Assessment period: October to December 2017

This Assessment Report consists of 2 pages.



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## 1 Procedure

SCHOMBURG GmbH & Co. KG commissioned the Braunschweig Civil Engineering Materials Testing Institute (MPA) to test the CO<sub>2</sub> permeability of the liquid-applied waterproofing material **AQUAFIN-2K/M-PLUS**.

The waterproofing material **AQUAFIN-2K/M-PLUS** is a 2-component plastic/mortar combination that is produced using the mixing ratio: Powder : Added liquid = 2.5 : 1 PBW.

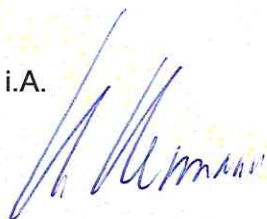
## 2 Test results

To determine the CO<sub>2</sub> permeability, a free film (total application quantity 3,500 g/m<sup>2</sup> (two applications, dry coating thickness 2.0 mm)) was created and stored in the standard climate (23/50-2) for 28 days. The test was carried out gravimetrically on three samples each in accordance with DIN EN 1062-6, Process A, with a CO<sub>2</sub> concentration gradient of 10%/0% at 23 °C and 0% r. h. The results for the coating thickness, the diffusion-equivalent air layer thicknesses  $s_D$  and the CO<sub>2</sub> diffusion resistance factor  $\mu$  are summarised in the table below.

Sample no.	Coating thickness [mm]	CO <sub>2</sub> diffusion-equivalent air layer thicknesses $s_D$ [m]	CO <sub>2</sub> diffusion resistance factor [ $\mu$ ]
1	2.13	> 200	> 100,000
2	1.87	> 200	> 100,000
3	2.07	> 200	> 100,000

This document is the translated version of Assessment Report no. (1200/953/17h) – Pan dated 22/01/2018. The legally binding text is the aforementioned German Assessment Report.

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