

**Assessment Report****-TRANSLATION-**

Document number: (1204/120/23) – Lau dated 17/05/2023

Client: an.kox GmbH  
Junghansring 52  
72108 Rottenburg, Germany

Order date: 11/05/2022

Order received: 14/02/2022

Subject of the order: Tests carried out on a waterproofing sheet with the designation "Polyfleece SX® 100"

Test basis: see Section 1

Samples received: 14/02/2022

Sampling: by client

Sample marking: see Section 1

Assessment period: 21/02/2022 to 19/05/2022

Dieser Assessment Report consists of 2 pages incl. cover sheet and 1 annex



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## 1 Commission and material

In its correspondence dated 11 February 2022, the company an.kox GmbH, Junghansring 52, 72108 Rottenburg, Germany, commissioned the Civil Engineering Materials Testing Institute (MPA BS) in Braunschweig to carry out tests on a waterproofing sheet (sheet fully bonded in fresh concrete) with the product designation

**"Polyfleece SX® 100".**

The order included the test of prevention of water running behind in the event of damage after seven or 28 days under water pressure when bonded to fresh concrete.

For the implementation of the tests, the client supplied approx. 2 running metres of the approx. 1.0 m wide roll. The product "Polyfleece SX® 100" is a multilayer waterproofing sheet with the following structure (manufacturer's specifications):

- Specially treated PES/PP non-woven
- 2-component hybrid polymer
- LDPE flat film (blue)

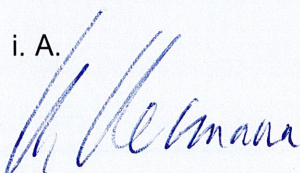
## 2 Testing and results

To test the prevention of water running behind when bonded to fresh concrete, concrete specimens (30 cm x 20 cm x 8 cm, length x width x height) were produced between the "Polyfleece SX® 100" waterproofing sheet and applied fresh concrete (consistency class F3, compressive strength class C30/37). After 28 days of curing, a damaged area ( $\varnothing = 10$  mm) was placed in the centre of the sheet, which penetrated into the concrete substrate. The tightness test was carried out using a pressure pot ( $\varnothing = 100$  mm) filled with water, which was clamped centrally over the damaged area.

The results have been compiled in table format in the annex enclosed, together with the test standards and test conditions.

This document is the translated version of the assessment report 1204/120/23 Lau dated 17/05/2023. The legally binding text is the aforementioned German assessment report.

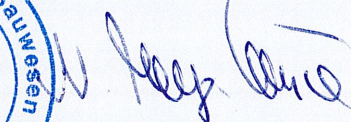
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Dr.-Ing. Knut Herrmann  
Head of Section



A.



Nicole Meyer-Laurien  
Engineer/Official in Charge



| Property  | Test procedure   | Findings  |
|---|--|---|
| Test of prevention of water running behind in the event of damage | Test based on DIN EN 1928 procedure A; damaged area positioned centrally under a pressure cylinder $\varnothing$ 10 cm;<br><br>Test on composite body<br>Substrate: Concrete <b>C30/37, F3 (28 d)</b><br>Water pressure: 500 kPa<br>Test duration: 7 d or 28 d | <u>Test duration 7 d:</u><br>- tight,<br>- no lateral water penetration into the boundary layer: tight<br><br><u>Test duration 28 d:</u><br>- tight,<br>- no lateral water penetration into the boundary layer: tight |

**Table:** Identified properties of the "Polyfleece SX<sup>®</sup> 100" waterproofing sheet