

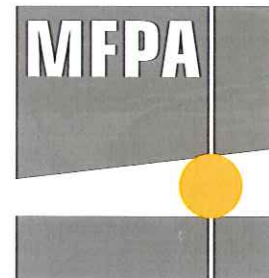
# Test Report

## FB-Kombistop

PB 1.1/ 10-188-1 | 22.07.2010 | english

Testing fibre concrete FB-Kombistop sealing plug with the built-in seal following DIN EN 12390-8

Tested by: MFPA Leipzig GmbH, Leipzig



**Business Division I – Building Materials**  
**Head of the Business Division: Dipl.-Ing. Marko Orgass**  
**Working Group 1.1 – Mineral Building Materials**

## Test Report

PB 1.1/10-188-1

dated July 22, 2010 1. copy

<b>object of the test:</b>	Testing fibre concrete <i>FB – KOMBISTOP</i> sealing plug with the built-in seal following DIN EN 12390-8
<b>client:</b>	Max Frank GmbH & Co. KG Mitterweg 1  D-94339 Leiblfing
<b>date of order:</b>	July 6, 2010
<b>client's code:</b>	Mr. Rapps
<b>receipt of sample:</b>	July 8, 2010
<b>sampling:</b>	AG
<b>designation:</b>	1.1 / 1.2 / 1.3
<b>test date:</b>	July 13, 2010
<b>staff engineer:</b>	Dipl.-Ing. (FH) M. Kühne

This test report consists of 2 pages and 1 annex.

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## 1 Preliminary Remarks

MFPA Leipzig GmbH was given the job of testing the properties of fibre concrete *FB - KOMBISTOP* sealing plug under pressure. Three test specimen cubes with edges 20 cm long were supplied on July 8, 2010 for the test following DIN EN 12390-8 [1]. In conformity with the order we carried out the pressure test on one side of the cube with concreted spacer and sealing plug (differing from [1]). For this purpose, the test surface was roughened around the plug and then impinged at a pressure of 5 bar for 72 hours. The test was carried out at a concrete age of 33 days. The following visual expert opinions were given after this test:

- the form and positional stability of the sealing plug and
- the water penetration on the other cube side surfaces.

Max Frank GmbH manufactured and stored it by July 8, 2010. It was stored in water at 20 °C after July 8, 2010.

## 2 Test Findings


The fibre concrete *FB - KOMBISTOP* sealing plug of all three test specimens tested apparently did not evidence any change in form and position after the pressure test and we were not able to discover any water penetrating on the cube surfaces of any of the three test specimens tested.

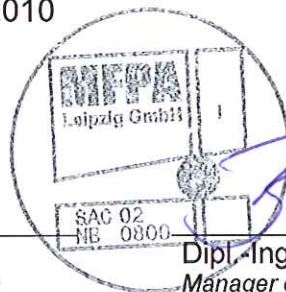
## 3 Literature List


- [1] DIN EN 12390-8: Prüfung von Festbeton - Teil 8: Wassereindringtiefe unter Druck; Deutsche Fassung EN 12390-8:2009 (Testing Hardened Concrete - Part 8: Water Penetration Depth under Pressure; German version EN 12390-8:2009)


The findings of these tests only refer to the objects of the test described and not to the basic totality.

Leipzig, (date) July 22, 2010

  
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Head of the Business Division



  
Dipl.-Ing. M. Becker  
Manager of Working Group  
Mineral Building Materials

  
Dipl.-Ing. (FH) M. Kühne  
Test Engineer

Annex: 1 photographic documentation

## Annex 1: photographic documentation



Figure 1: The sealing plug of test specimen 1.1 after the pressure test



Figure 2: The sealing plug of test specimen 1.2 after the pressure test



Figure 3: The sealing plug of test specimen 1.3 after the pressure test