



Quellenstraße 3
65439 Flörsheim-Wicker

Telefon +49 (0) 61 45 - 5 97 10
Telefax +49 (0) 61 45 - 5 97 19

www.polymer-institut.de
pi@polymer-institut.de

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Test report P 5899-3-E

Testing order:

**Waterproofing efficiency of
"Polybeton Protect M 880"
according to DIN EN 12390-8**

Customer:

**Polat S.A.
34, 25th Martiou Str
N. Efkarpia
56429 Thessaloniki
Greece**

Person in charge:

**J. Magner
Dipl.-Ing. W. Jung**

Date of the test report:

2009-01-27

This test report comprises:

5 pages

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1 SUBJECT

The Polymer Institut was charged by Polat S.A., Thessaloniki, to test the waterproofing efficiency according to DIN EN 12390 part 8 of the materials

Polybeton Protect M (Code 880)
on water permeable substrate.

The material submitted is described by the customer as follows:

Material	Description
Polybeton Protect M (Code 880)	Clear, sealing, impregnation resin

Extent of testing

The testing programme subsequently listed has been agreed with the customer.

Test	Standard	Method
Water tightness	DIN EN 12390-8	Testing hardened concrete - Part 8: Depth of penetration of water under pressure;

2 RECEIPT OF SPECIMENS

On 2009-01-15 the following material were received at the Polymer Institut:

Table 1: Receipt of specimens

No.	Material	Container	Quantity [kg]
1	Polybeton Protect M (Code 880)	tin	1 x 0,9

The material is a ready-to-use penetrating solution.

3 PREPARATION OF THE COMPOSITE SPECIMENS

The substrate was coated on top by a co-worker of the Polymer Institut at standard atmosphere DIN 50014-23/50-2 in accordance with the guideline of the customer.

Table 2: System of the composite specimens

Specimen No.	Substrate	application
1 to 3	water-permeable concrete class C20/25 according to DIN EN 206 part 1 table 7	180 g/m ²

The waiting period until the beginning of the exposure was 3 days acc. to the customers guideline.

One reference substrate without treatment was exposed in the testing device too.

4 TEST

The water tightness was determined following the test method specified in DIN EN 12390-8 by application of water to the specimens submitted.

Test duration: 72 hours

Pressure: 0.5 MPa

Assessment:

After an exposure time of 72 hours the test specimens were cut centrally, and the penetration depth of the water was evaluated at the broken areas.

Result:

1. No water penetrated into the test specimens.
2. The reference concrete specimen without organic treatment was totally soaked with water.

5 SUMMARY

The Polymer Institut was charged by Polat S.A., Thessaloniki, to test the waterproofing efficiency according to DIN EN 12390 part 8 of

Polybeton Protect M (Code 880)

on water permeable substrate.

The results are to be taken from the previous chapter.

Flörsheim-Wicker, 2009-01-27

The head of the testing facility



J. Magner



The person in charge



Dipl.-Ing. (FH) W. Jung M.Eng.