

Schomburg GmbH & Co. KG

Central applications engineering, **certified concrete testing laboratory**,
Building material - laboratory

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Testreport 28/18 EN

- Project definition:** Testing the water penetration on concrete test cubes supplied with built-in distance tubes, sealed on one side with one or two fibre-reinforced plugs according to DIN EN 12390-8 at a water pressure of 7 bar and 72 hours
- Initiator:** Fa. Reent Obernolte GmbH & Co. KG
Ravensberger Straße 59-63
32278 Kirchlengern
- Test date:** Oktober – November 2018
- Responsible person:** H. Maaßen, H. Beyer
- Used material:** FASA- Spreizen“ , fibre-reinforced concrete distance tubes (diameter inside 23 mm diameter outside 42mm)
plastic plug (diameter outside 23,2 mm, heigth 20 mm)
fibre-reinforced concrete plugs (diameter outside 21,3 mm, heigth 20 and 40 mm)
steel pipe gauge
Obernolte- Spezial- Faserbetonkleber 12/56c
(two-component adhesive)
Concrete C 30/37
- Testresult:** each of 3 test cubes are fixed in test equipment according DIN EN 12390-8 that the waterpressure operates directly to the glued fibre-reinforced concrete plugs.
With the passage of the test period no moisture was detected on the opposite, open FASA-Spreize. The bonding of the plugs is waterproofed in both cases.

Detmold, 04.12.2018


Thomas Beyer

Head of the test laboratory

Explanation and data sheet

The distance tubes are cutted to length und fixed using plastic cones in the middle of a concrete cube mold. Then the mold was pouring with concrete C30/37. After demolding the test cubes stored for 7 days under water und 5 days under laboratory conditions. The preparation of bonding happened in accordance to Obernolte technical datasheet dated by 11. February 1988.

The adhesive was mixed by the instructions of use written on the label.

The plug (20mm) was coated with adhesive and fixed in hole of the distance tubes (FASA-Spreizen). After this the second plug was fixed in the same way.

The adhesive squeezed out between plug and tube and guaranteed a complete waterproofing.

In the same way with the same result we worked with the 40 mm plug.