Schomburg GmbH & Co. KG

Central application engineering, cert. WPK-Test Centre, Building material laboratory D - 32760 Detmold, Aquafinstr. 2-8 - Tel. 5231 / 953-247

Study report 20/20 part 1

Task:

Determination of the resistance of applied ASODUR-SG2 on

concrete substrates against negative water pressure according

to DIN EN 12390-8

Client:

Schomburg GmbH & Co KG - M. Hölscher

Test date:

October-November 2020

Official in charge:

M. Hölscher, Th. Beyer

Materials used:

ASODUR-SG2

Char.:061801043

ASODUR-SG3-thix+0,5%ASO-FF

Quartz sand 0.5-1.0mm

Char.:062001101

Pavement slab 20x20 DIN EN 1339

Local building material

trade

Result:

The boards coated with ASODUR-SG2 resist a water pressure

of 3 bar (30m water column) maintained for 48 hours. No water

penetration could be detected on the coated side.

A control plate without coating showed a strong water

penetration after only 30 minutes at a water pressure of 1 bar.

Detmold, 17.11.2020

Head of the test centre

Execution and data in annex

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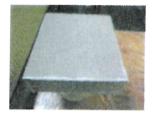
Execution and data:

Before coating, the concrete slabs were stored in a climate of 20°C/55% relative humidity until the weight was constant.

Before coating, one of two slabs was moistened until a matt-damp substrate was created.

The coating of the panels was carried out by brushing and rolling crosswise with an area consumption of 800 g/m².

The boards were broadcasted with quartz sand 0.5-1.0 mm with an area consumption of 1.5 kg/m².



After curing of the surface, the side and bottom surfaces were coated with ASODUR-SG3-thix +0.5% ASO-FF by brush application.



After a further storage period of 7 days in the climate, the panels were clamped in the test facility and subjected to 1 bar water pressure for 24 hours and 3 bar water pressure for 48 hours.

