

PAINTCOR

SUPREME QUALITY *From 2086*

AQUAMATT

SABS SABS Test Report

ISO 9001

All Information on this page was copied from SABS Test Report Number: 5546/82702/99 Dated: 1999-02-11
This report relates only to the specific sample(s) tested as identified herein. It does not imply SABS approval of the quality and / or performance of the item(s) in question and the test results do not apply to any similar item that has not been tested. (Refer also to the complete conditions printed on the back of the official test reports.)

Water Penetration Test on Concrete Roof Slab with Aqua-Matt Coating

1. Introduction

At the request of Paintcor CC two water penetration tests were conducted on a concrete roof, treated with Aqua-Matt roll-on fibre-reinforced waterproof coating.

Both tests were conducted simultaneously on the roof, and the aim of the test was to prove that the Aqua-Matt coating applied to the roof was sufficient as a waterproof membrane to satisfy the National Buildings Regulations requirements under L1(b) regarding waterproofing.

The tests were conducted by the Structural Engineering Division of the SABS at No. 2 Opaal Street, Jukskei Park between 14 and 15 January 1999.

2. Description of Tested Area

The tests were conducted on a 4000mm x 5000mm in plan "open air" deck of a private residence. The tested deck was a concrete roof slab situated directly above the living room / lounge and patio of the building.

Two separate tests were conducted, one test at a position 3000mm south of the northern end of the deck directly against the west end side of a one meter high divide wall, situated 1000mm from the east end of the deck. The position was so chosen as to ensure a water build-up between the deck surface and the divide wall. The second test was conducted at a position 3000mm south of the northern end of the deck flush and at a slight angle against the western perimeter wall of the deck.

The position and angle so chosen as to incorporate the deck surface as well as the first 100mm of the perimeter wall within the test area.

The deck surface treatment reputedly consisted of the following:

A single coat of fibre-reinforced Aqua-Matt applied to the top surface of the deck with an approximate application thickness of between 1 -3mm, using a ripple textured roller.

A single maintenance coat of Aqua-Seal Paint, (clay tile color), applied over the Aqua-Matt coat.

The surface below the deck, (ceiling), was painted with white Pristina Acrylic PVA.

3. Test Methods

The standard rain penetration test as described in Code of Practice SABS 0400:1990 (Section 3, Part K, Rule KK 17.1, Table 8), was conducted for a 24 hour period, (for mean annual rainfall of more than 1000mm and an hourly mean wind speed of 30m/s), at a water spray rate of 40 - 50mm depth of water per hour, for both tested areas.



PAINTCOR

MANUFACTURERS

4. Test Results

Both water penetration test apparatus were placed in position, as described in 2. and both tests started simultaneously at 11:30 on 14 January 1999.

The ceiling and internal wall surfaces below the tested areas were observed regularly for any sign of dampness or leakage.

At 11:30 the following morning both test apparatus were switched off simultaneously.

No sign of dampness or leakage was recorded over the 24 hour test period. .

5. Conclusion

The Aqua-Matt and Aqua-Seal surface treatment applied to the tested concrete deck as described in 2. proved to satisfy the National Building Regulations Requirements under L1(b) - water proofness only, for areas with an annual rainfall of more than 1000mm up to a maximum of 1400mm where the annual hourly mean windspeed does not exceed 30m/s. (ie. entire South African region)