

Test Report

EN 927-5

Report No.: 214938-253



DANISH
TECHNOLOGICAL
INSTITUTE

Gregersensvej
DK-2630 Taastrup
Tel. +45 72 20 20 00
Fax +45 72 20 20 19

info@teknologisk.dk
www.teknologisk.dk

Page 1 of 1
bkv/jos/hbs
Order no.: 214938
No. of appendices: 1

Assignor: Teknos A/S
Industrivej 19
DK-6580 Vamdrup
Denmark

Material: The test specimens were treated according to assignor's directions:
TEKNOL AQUA 1410-01. Dipping 90 (80-100) g/m²
ANTISTAIN AQUA 5200-00. Spraying 210 (189-231) g/m²
AQUATOP VIRTIA BASE 1. Spraying 180 (162-198) g/m²

Sampling: The test material was sampled by the client and received at the Danish Technological Institute on 14-12-2023.

Method: EN 927: Paints and varnishes - Coating materials and coating systems for exterior wood Part 5:2006. Assessment of the liquid water permeability.

Period: The testing was carried out from 31-01-2024 to 28-06-2024
Water permeability test took place from 25-06-2024 to 28-06-2024

Test Panels:	Average (min-max)	
Wood density (12% MC)	462 (451-473)	kg/m ³
TEKNOL AQUA 1410-01	90 (86-97)	g/m ²
ANTISTAIN AQUA 5200-00	210 (201-218)	g/m ²
AQUATOP VIRTIA BASE 1	173 (171-174)	g/m ²
Dry film thickness	109 (105-115)	µm
Water absorption after 72 hours	80 (74-88)	g/m ²
- standard deviation	5	g/m ²
- coefficient of variation	6	%
Reference panels (test of sealer):		
Wood density (12% MC)	468 (455-480)	kg/m ³
Water absorption after 72 hours	11 (9-12)	g/m ²

Assessment: According to EN 927-2:2022. Part 2: Performance specification. The tested system performs as 'Stable' regarding water absorption (≤ 175 g/m²).

Validity: Water absorption after 72 hours on reference specimens was ≤ 30 g/m². The test is valid.

Terms: This test was conducted accredited in accordance with international requirements ISO/IEC 17025:2017 and in accordance with the General Terms and Conditions of Danish Technological Institute. The test results solely apply to the tested item. This test report may be quoted in extract only if Danish Technological Institute has granted its written consent.
This document is only valid with a digital signature from Danish Technological Institute. The date of issue appears from the digital signature Approved and signed by:

Berit Lindegaard
Mobil: +45 7220 2314
E-mail: bkv@dti.dk
Test responsible

Jonas Stenbæk
Mobil: +45 7220 1139
E-mail: jos@dti.dk
Co-responsible



DIGITALT SIGNERET DOKUMENT

11. juli 2024

TEKNOLOGISK INSTITUT



Detailed results

Order no.: 214938
Appendix: 1
Page: 1 of 1
Initials: bkv/jos/hbs

Substrate: Norway spruce (*Picea abies* (L.) Karst.).

Material specification: TEKNOL AQUA 1410-01. SKU: 1711455.
ANTISTAIN AQUA 5200-00. SKU: 2105864 Lot: 402790-401.
AQUATOP VIRTIA BASE 1. SKU: 10003122 Lot: 406533-301.

Treatment:

Coat	Trade name	Type	Application method and date	Recommended amount [g/m ²]
1	TEKNOL AQUA 1410-01	Impregnation	Dipping 31-01-2024	80-100
2	ANTISTAIN AQUA 5200-00	Intermediate	Spraying 29-04-2024	189-231
3	AQUATOP VIRTIA BASE 1	Topcoat	Spraying 02-05-2024	162-198

Results:

Test panels							
Panel no.	1401		1402		1403		Average
Density [kg/m³]	473		462		451		462
Application data							
Coat 1 [g/m²]	97		88		86		90
Coat 2 [g/m²]	211		201		218		210
Coat 3 [g/m²]	173		171		174		173
Dry film thickness							
Thickness [µm]	110 / 110 / 105 / 115 / 110		105 / 110 / 105 / 110 / 110		110 / 105 / 110 / 115 / 110		109
Std.dev. [µm]	4		3		4		3
Water absorption							
Panel part	A	B	A	B	A	B	Average
Absorption [g/m²]	76	74	81	81	78	88	80
Std.dev. [g/m²]	5						
COV [%]	6						
Reference panels (test of sealer)							
Panel no.	R101		R102		R103		Average
Density [kg/m³]	469		455		480		468
Water absorption							
	A	B	A	B	A	B	Average
Absorption [g/m²]	10	9	11	10	12	11	11
Std.dev. [g/m²]	1						
COV [%]	9						