Test Report

EN 927-5

Report No.: 214938-293

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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 1415-01. Dipping 150 (135-165) g/m²
ANTISTAIN AQUA 2901-63. Dipping 125 (113-138) g/m²
ANTISTAIN AQUA 2901-63. Dipping 85 (77-94) g/m²
AQUATOP VIRTA BASE 1. Spraying 360 (324-396) 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

Result:

Test Panels:	**Average (min-max)**	
Wood density (12% MC)	408 (404-415)	kg/m³
TEKNOL AQUA 1415-01	145 (136-149)	g/m²
ANTISTAIN AQUA 2901-63	120 (118-122)	g/m²
ANTISTAIN AQUA 2901-63	90 (88-92)	g/m²
AQUATOP VIRTA BASE 1	338 (324-356)	g/m²
Dry film thickness	108 (90-125)	µm
Water absorption after 72 hours	102 (99-105)	g/m²
- standard deviation	2	g/m²
- coefficient of variation	2	%
Reference panels (test of sealer):		
Wood density (12% MC)	468 (455-480)	kg/m³
Water absorption after 72 hours	11 (9-12)	g/m²

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.
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DIGITALT SIGNERET DOKUMENT
11. juli 2024
TEKNOLOGISK INSTITUT

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ilac-MRA DANAK TEST Reg.no. 2

Detailed results

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

Material specification: TEKNOL AQUA 1415-01 . SKU: 2579931 Lot: 400345-301.
ANTISTAIN AQUA 2901-63. SKU: 10000324 Lot: 399398-301.
AQUATOP VIRTA BASE 1. SKU: 10003122 Lot: 406533-301.

Treatment:

Coat	Trade name	Type	Application method and date	Recommended amount [g/m²]
1	TEKNOL AQUA 1415-01	Impregnation	Dipping 14-02-2024	135-165
2	ANTISTAIN AQUA 2901-63	Intermediate	Dipping 23-04-2024	113-138
3	ANTISTAIN AQUA 2901-63	Intermediate	Dipping 25-04-2024	77-94
4	AQUATOP VIRTA BASE 1	Topcoat	Spraying 03-05-2024	324-396

Results:

Test panels							
Panel no.	4201		4202		4203		Average
Density [kg/m³]	404		405		415		408
Application data							
Coat 1 [g/m²]	149		149		136		145
Coat 2 [g/m²]	120		122		118		120
Coat 3 [g/m²]	92		88		92		90
Coat 4 [g/m²]	332		324		356		338
Dry film thickness							
Thickness [µm]	95 / 105 / 110 / 115 / 120		90 / 95 / 100 / 105 / 100		105 / 120 / 120 / 120 / 125		108
Std.dev. [µm]	10		6		8		11
Water absorption							
Panel part	A	B	A	B	A	B	Average
Absorption [g/m²]	102	101	105	100	99	103	102
Std.dev. [g/m²]	2						
COV [%]	2						
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						