Test Report

EN 927-5

Report No.: 214938-325

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

Assignor: Teknos A/S
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Material: The test specimens were treated according to assignor's directions:
TEKNOL AQUA 1414-01. Dipping 95 (80-110) g/m²
ANTISTAIN AQUA 5200-00. Spraying 210 (189-231) g/m²
AQUATOP VIRTA 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

Result:

Test Panels:	**Average (min-max)**	
Wood density (12% MC)	406 (398-417)	kg/m³
TEKNOL AQUA 1414-01	95 (84-101)	g/m²
ANTISTAIN AQUA 5200-00	201 (189-218)	g/m²
AQUATOP VIRTA BASE 1	175 (172-176)	g/m²
Dry film thickness	121 (110-135)	µm
Water absorption after 72 hours	81 (76-84)	g/m²
- standard deviation	3	g/m²
- coefficient of variation	4	%
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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11. juli 2024
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ilac-MRA DANAK TEST Reg.no. 2

Detailed results

Order no.: 214938
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Initials: bkv/jos/hbs

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

Material specification: TEKNOL AQUA 1414-01. SKU: 10002022 Lot: 380637-201.
ANTISTAIN AQUA 5200-00. SKU: 2105864 Lot: 402790-401.
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 1414-01	Impregnation	Dipping 22-04-2024	80-110
2	ANTISTAIN AQUA 5200-00	Intermediate	Spraying 30-04-2024	189-231
3	AQUATOP VIRTA BASE 1	Topcoat	Spraying 02-05-2024	162-198

Results:

Test panels							
Panel no.	8601		8602		8603		Average
Density [kg/m³]	398		402		417		406
Application data							
Coat 1 [g/m²]	101		84		100		95
Coat 2 [g/m²]	189		196		218		201
Coat 3 [g/m²]	172		176		175		175
Dry film thickness							
Thickness [µm]	110 / 115 / 120 / 120 / 110		115 / 130 / 125 / 130 / 130		115 / 115 / 135 / 125 / 125		121
Std.dev. [µm]	5		7		8		8
Water absorption							
Panel part	A	B	A	B	A	B	Average
Absorption [g/m²]	80	80	84	76	84	79	81
Std.dev. [g/m²]	3						
COV [%]	4						
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						