

Test Report

EN 927-5

Report No.: 214938-213



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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 1410-01. Dipping 90 (80-100) g/m²
ANTISTAIN AQUA 5200-00. Spraying 175 (158-193) g/m²
AQUATOP 2600-82 white. Spraying 200 (180-220) 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)	412 (404-421)	kg/m ³
TEKNOL AQUA 1410-01	89 (82-92)	g/m ²
ANTISTAIN AQUA 5200-00	180 (166-192)	g/m ²
AQUATOP 2600-82 white	203 (198-208)	g/m ²
Dry film thickness	111 (100-120)	µm
Water absorption after 72 hours	69 (65-74)	g/m ²
- standard deviation	4	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.
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11. juli 2024

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Detailed results

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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 2600-82 white. SKU: 2569437 Lot: 405787-301.

Treatment:	Coat	Trade name	Type	Application method and date	Recommended amount [g/m ²]
	1	TEKNOL AQUA 1410-01	Impregnation	Dipping 22-04-2024	80-100
	2	ANTISTAIN AQUA 5200-00	Intermediate	Spraying 30-04-2024	158-193
	3	AQUATOP 2600-82 white	Topcoat	Spraying 07-05-2024	180-220

Results:

Test panels							
Panel no.	401		402		403		Average
Density [kg/m³]	412		404		421		412
Application data							
Coat 1 [g/m²]	92		92		82		89
Coat 2 [g/m²]	183		192		166		180
Coat 3 [g/m²]	202		198		208		203
Dry film thickness							
Thickness [µm]	105 / 100 / 110 / 115 / 105		115 / 120 / 115 / 115 / 100		115 / 120 / 115 / 120 / 100		111
Std.dev. [µm]	6		8		8		7
Water absorption							
Panel part	A	B	A	B	A	B	Average
Absorption [g/m²]	74	72	65	65	72	67	69
Std.dev. [g/m²]	4						
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						