

Test Report

EN 927-5

Report No.: 214938-201



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

Assignor: Teknos A/S
Industrivej 19
DK-6580 Vamdrup
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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
AQUAPRIMER 2900-02 - TST 615329015 Nut. Dipping 50 (45-55) g/m²
AQUATOP 2600-94 **base T - TST 660319015 Nut. Spraying 200 (180-220) g/m²
AQUATOP 2600-94 **base T - TST 660319015 Nut. Spraying 100 (90-110) 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)	429 (406-456)	kg/m ³
TEKNOL AQUA 1410-01	85 (84-87)	g/m ²
AQUAPRIMER 2900-02 - TST 615329015 Nut	49 (48-49)	g/m ²
AQUATOP 2600-94 **base T - TST 660319015 Nut	197 (183-220)	g/m ²
AQUATOP 2600-94 **base T - TST 660319015 Nut	104 (103-105)	g/m ²
Dry film thickness	105 (90-115)	µm
Water absorption after 72 hours	87 (78-95)	g/m ²
- standard deviation	7	g/m ²
- coefficient of variation	8	%
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:



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11. juli 2024

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Detailed results

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Initials: bkj/jos/hbs

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

Material specification: TEKNOL AQUA 1410-01. SKU: 1711455.
AQUAPRIMER 2900-02 - TST 615329015 Nut. SKU: 1944723 Lot: 401516-301.
AQUATOP 2600-94 **base T - TST 660319015 Nut. SKU: 2565477 Lot: 407055-201.

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	AQUAPRIMER 2900-02 - TST 615329015 Nut	Primer	Dipping 26-04-2024	45-55
	3	AQUATOP 2600-94 **base T - TST 660319015 Nut	Topcoat	Spraying 03-05-2024	180-220
	4	AQUATOP 2600-94 **base T - TST 660319015 Nut	Topcoat	Spraying 06-05-2024	90-110

Results:

Test panels							
Panel no.	101		102		103		Average
Density [kg/m³]	406		456		424		429
Application data							
Coat 1 [g/m²]	84		85		87		85
Coat 2 [g/m²]	49		48		49		49
Coat 3 [g/m²]	187		220		183		197
Coat 4 [g/m²]	105		103		104		104
Dry film thickness							
Thickness [µm]	90 / 90 / 100 / 115 / 115		110 / 115 / 105 / 115 / 115		90 / 95 / 100 / 110 / 105		105
Std.dev. [µm]	13		5		8		10
Water absorption							
Panel part	A	B	A	B	A	B	Average
Absorption [g/m²]	95	94	84	89	84	78	87
Std.dev. [g/m²]	7						
COV [%]	8						
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						