

File: LT-042744-Teknodur Combi 800-500 test results.doc
Date: 4 December 2025

PERFORMANCE OF THE PAINT SYSTEM ACCORDING TO ISO 12944-6:2018. CORROSIVITY CATEGORIES: SALT SPRAY AND WATER CONDENSATION TESTS.

Laboratory: ISO 12944-6:2018

Laboratory	Dates of tests
Name: Teknos Oy Address: Takkatie 3, P.O. Box 107 FI-00371 HELSINKI	Test panels arrived: August 2025 Beginning of testing: September 2025

Description of paint system

Manufacturer	Type of environment	Type of substrate
Name: Teknos Oy Address: Takkatie 3, P.O. Box 107 FI-00371 HELSINKI	C3 High	Fe Sa2½

	Trade name	Colour shade	Generic type	NDFT, µm
1 st coat	TEKNODUR COMBI 800-500	white	PUR	120
2 nd coat				
3 rd coat				
4 th coat				
5 th coat				
Total: 120 µm				

Surface preparation

Surface preparation: Sa2½	Substrate: steel	Rust grade: N/A
Panel size: 100 mm x 150 mm x 3 mm	Cleaning: N/A	Profile: Grit, Medium

Paint system abbreviation according to ISO 12944-5:2019:

Tested paint system not in compliance with ISO 12944-5:2019

Identification code and numbers for the set of the painted panels:

RF25F0004-006 Reference panels, SS25F0542-0544 neutral salt spray panels, CT25F0417-0419 water condensation panels

Assessment before artificial ageing:

Assessment method	Results, panel n:o			Requirements	Remarks
	RF25F0004	RF25F0005	RF25F0006		
ISO 2409, Cross-cut	1	1	1	Classification 0 to 2	Only if DFT ≤ 250 µm
ISO 4624, Pull-off	8.6	7.8	7.8	Min. 2.5 MPa for each measurements	0 % adhesive failure from substrate, unless values at least 5 MPa
	8.2	8.0	8.0		
	8.9	7.9	7.9		

WE MAKE THE WORLD LAST LONGER

File: LT-042744-Teknodur Combi 800-500 test results.doc
Date: 4 December 2025

Assessment after artificial ageing, ISO 9227: neutral salt spray, test time: 480 h

Assessment methods	Results, panel n:o			Requirements	Remarks
	SS25F0542	SS25F0543	SS25F0544		
ISO 4628-2, Blistering	0	0	0	0 (S0)	
ISO 4628-3, Rusting	0	0	0	Ri 0	
ISO 4628-4, Cracking	0	0	0	0 (S0)	
ISO 4628-5, Flaking	0	0	0	0 (S0)	
Corrosion at scribe	0.1	0.1	0.0	Max 1.5 mm	
ISO 2409, Cross cut	1	1	1	Classification 0 to 2	Only if DFT \leq 250 μ m. Assessment after 7 d reconditioning.
ISO 4624, Pull-off Measurement uncertainty: \pm 0,3 MPa	8.8 8.0 7.7	8.3 6.6 6.8	8.5 8.8 8.6	Min. 2.5 MPa for each measurements	0 % adhesive failure from substrate, unless values at least 5 MPa. Assessment after 7 d reconditioning.

Assessment after artificial ageing, ISO 6270-1: water condensation, test time: 240 h

Assessment methods	Results, panel n:o			Requirements	Remarks
	CT25F0417	CT25F0418	CT25F0419		
ISO 4628-2, Blistering	0	0	0	0 (S0)	
ISO 4628-3, Rusting	0	0	0	Ri 0	
ISO 4628-4, Cracking	0	0	0	0 (S0)	
ISO 4628-5, Flaking	0	0	0	0 (S0)	
ISO 2409, Cross cut	1	1	1	Classification 0 to 2	Only if DFT \leq 250 μ m. Assessment after 7 d reconditioning.
ISO 4624, Pull-off Measurement uncertainty: \pm 0,3 MPa	6.0 7.0 7.7	5.4 5.9 6.1	6.7 8.3 7.4	Min. 2.5 MPa for each measurements	0 % adhesive failure from substrate, unless values at least 5 MPa. Assessment after 7 d reconditioning.

Conclusion: According to the laboratory test results, the tested paint system fulfils the requirements of C3 High specified in ISO 12944-6:2018. However, the painting system is not in compliance with ISO 12944-5:2019. Please contact Teknos representative to discuss the painting system recommendation in case.

File: LT-042744-Teknodur Combi 800-500 test results.doc
Date: 4 December 2025

Signatures:

Risto Fabritius
Risto Fabritius
Laboratory Manager

tero laiinen
tero laiinen
R&D Chemist



Picture 1. Adhesion reference panels.



Picture 2. Neutral Saltspray test panels.

File: LT-042744-Teknodur Combi 800-500 test results.doc
Date: 4 December 2025



Picture 3. Condensation test panels.