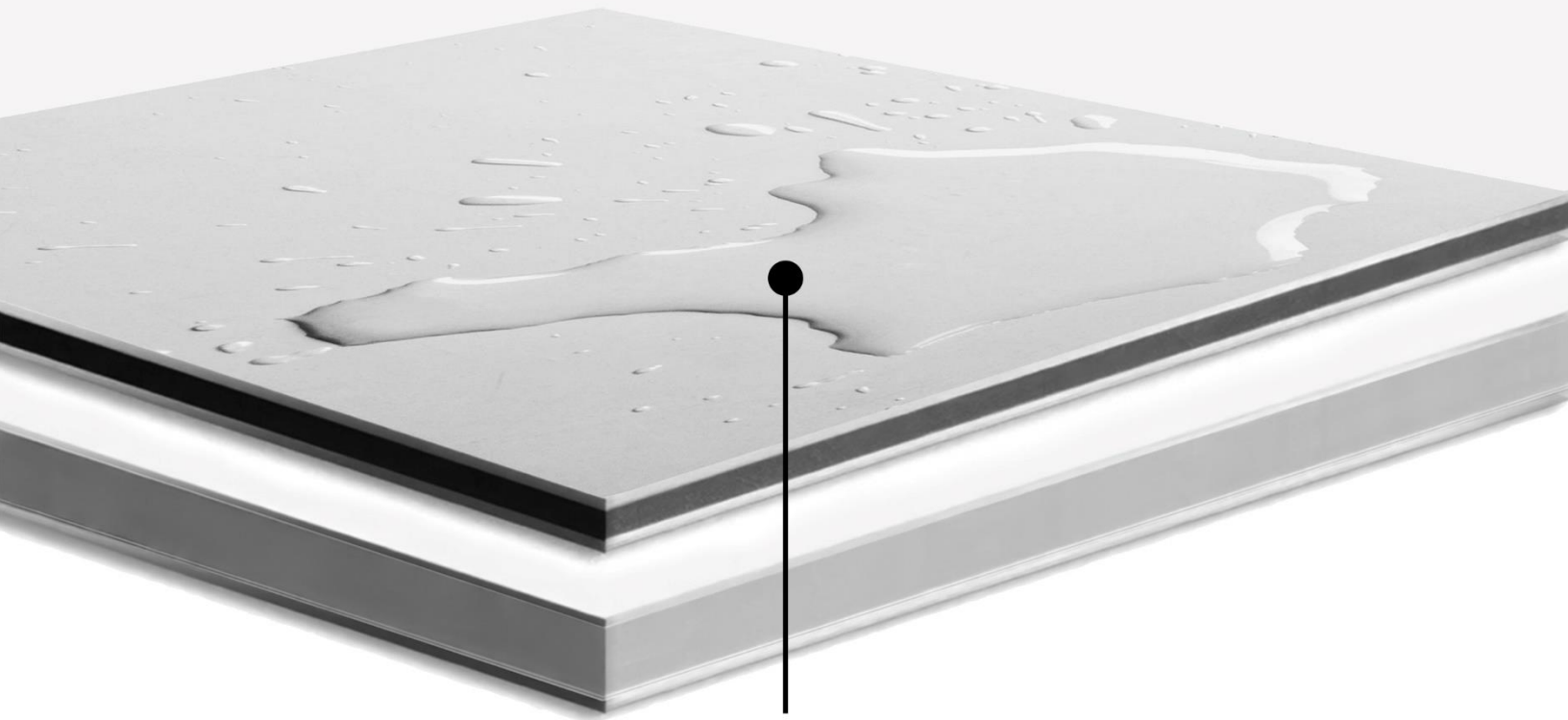


PROTECTIVE

UV & Chemicals



Exclusive Liquid Coating

FINISH

Technical Document - TOP COAT

MURALUXE.CA

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Muraluxe PROTECTIVE FINISH – TOP COAT

1. Preamble

Muraluxe's architectural panels stand out for their quality, durability, and performance, comparable to traditional tiles but available in larger formats. Manufactured through strict processes, these panels provide a flawless finish and top-tier technical characteristics, positioning them as a premium material. With their large format, these innovative panels combine aesthetics and functionality, offering extensive creative freedom without compromising quality.

2. Muraluxe R&D

Muraluxe Inc. is a North American-renowned company based in Trois-Rivières, Quebec, Canada, specializing in the design and manufacturing of custom architectural panels. Through advanced continuous production and lacquering technology, Muraluxe ensures tailored solutions that meet the industry's most stringent standards. Additionally, Muraluxe devotes substantial efforts to research and development, committed to ongoing innovation to enhance its products and address the evolving needs of the market. This proactive approach enables the company to remain at the forefront of the industry, offering innovative and sustainable solutions to its clients.

3. Technical Specifications

THE PROTECTIVE FINISH – TOP COAT is an exclusive liquid layer, specially designed for Muraluxe, that provides protection against UV rays and chemicals while ensuring exceptional durability. It also guarantees Level 10 antifungal resistance, making it ideal for school, hospital, and medical environments. Three finish options are available:

- **Matte:** This absorbent finish provides a subtle, elegant look, reducing reflections while concealing imperfections.
- **Satin:** Offering a balance between gloss and natural appearance, the satin finish has a soft sheen.
- **Gloss:** This high-shine finish creates a mirror effect, adding brightness and depth to surfaces.

These three options allow clients to customize the appearance of their panels while enjoying the protection and durability that Muraluxe offers.

- **Durability:** With its advanced technical features, this finish provides enhanced resistance to UV rays, chemicals, impacts, corrosion, and weather, ensuring exceptional durability of the panels.
- **Maintenance:** Compared to tiles and grout, which often require deep cleaning and specific products to prevent dirt and mold buildup, the protective finish on Muraluxe panels significantly simplifies maintenance. Thanks to their smooth, stain-resistant surface, a simple wash with soapy water and a soft cloth is enough to preserve their shine. This ease of maintenance makes the panels a practical and aesthetic solution for all spaces.

ANNEX (Table of Properties)

Test	Description	Unit/Ref	Results System D	Date Completed
Visual Appearance	WDMA 12-20	Observations (Without visible defects)	No visible defects	2/21/22
Gloss	ASTM D523	Gloss units at 60° (read and record)	93.2	2/21/22
Dry Film Thickness	ASTM D5235	Average mils (15 years ≥ 1.9, 30 years ≥ 3.8)	6.9	2/22/22
Dry Adhesion	ASTM D3359	Method A grading (read and record)	5A	3/2/2022
		Method B grading (≥ 3B)	One at 4B, one at 5B	3/2/2022
Wet Adhesion	24-hour immersion (100°F) 24-hour recovery (ambient temperature) ASTM D3359	Method A grading (read and record)	4A	3/2/2022
		Method B grading (≥ 2B)	One at 4B, one at 5B	3/2/2022
Boiling Water Adhesion	20-minute immersion (212°F) 24-hour recovery (ambient temperature) ASTM D3359	Method A grading (read and record)	4A	3/2/2022
		Method B grading (≥ 2B)	4B	3/2/2022
Cold Cycle Testing	24 hours (100°F and 100% RH) 20 hours (10°F ± 3°F) 4 hours at ambient temperature	15 cycles (visual inspection pass)	Pass	2/23/2022-4/25/2022

Humidity Exposure	2000 Hours ASTM D2247 ASTM D714 ASTM D3274	Blistering (8F or better)	Size: 10 Frequency: 0 (None)	Test start date: 21/02/2022 Test end date: 16/05/2022
		Fungal growth rating (record only)	10 None)	5/16/2022
1% Detergent Resistance	2-hour immersion (100°F) ASTM D2244 ASTM D523	Tape removal (Pass)	Pass	3/1/2022
		CIELAB Color ($\leq 5,0$ DE)	(7D) $\Delta L = -0.15$ (8D) $\Delta L = 0.21$ (7D) $\Delta a = -0.07$ (8D) $\Delta a = -0.01$ (7D) $\Delta b = 0.04$ (8D) $\Delta b = 0.01$ (7D) $\Delta E = 0.16$ (8D) $\Delta E = 0.21$	3/1/2022
		Gloss Retention % (≥ 90 %)	100%, 99%	3/1/2022

QUV-A 340	200 Hours ASTM D4587 Cycle 2 ASTM D2244 ASTM D523 ASTM D4214 ASTM D5235 ASTM D3359	CIELAB Color (read & record ΔL , Δa , Δb , ΔE)	(3D) ΔL = -0.35 (4D) ΔL = -0.47 (3D) Δa = 0.08 (4D) Δa = 0.03 (3D) Δb = 0.17 (4D) Δb = 0.29 (3D) ΔE = 0.39 (4D) ΔE = 0.55	3/2/2022
		Gloss Retention % (read and record)	100%, 100%	3/2/2022
		Screening Method, A (read and record)	10	3/2/2022
		Visual Inspection (No checking, cracking, peeling, delamination, or screening)	No checking, cracking, peeling, delamination, or screening	3/2/2022
		DFT Retention % (read and record)	N/A	N/A
		Adhesion Rating Method A (read and record)	One at 5A, one at 4A	3/7/2022
		Adhesion Rating Method B (read and record)	4B	3/7/2022

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