

MADE IN TURKEY

MARYFASS

Premium Acrylic Solid Surfaces

Exterior Wall Cladding Technical Manual

Reference: MF-803-2026

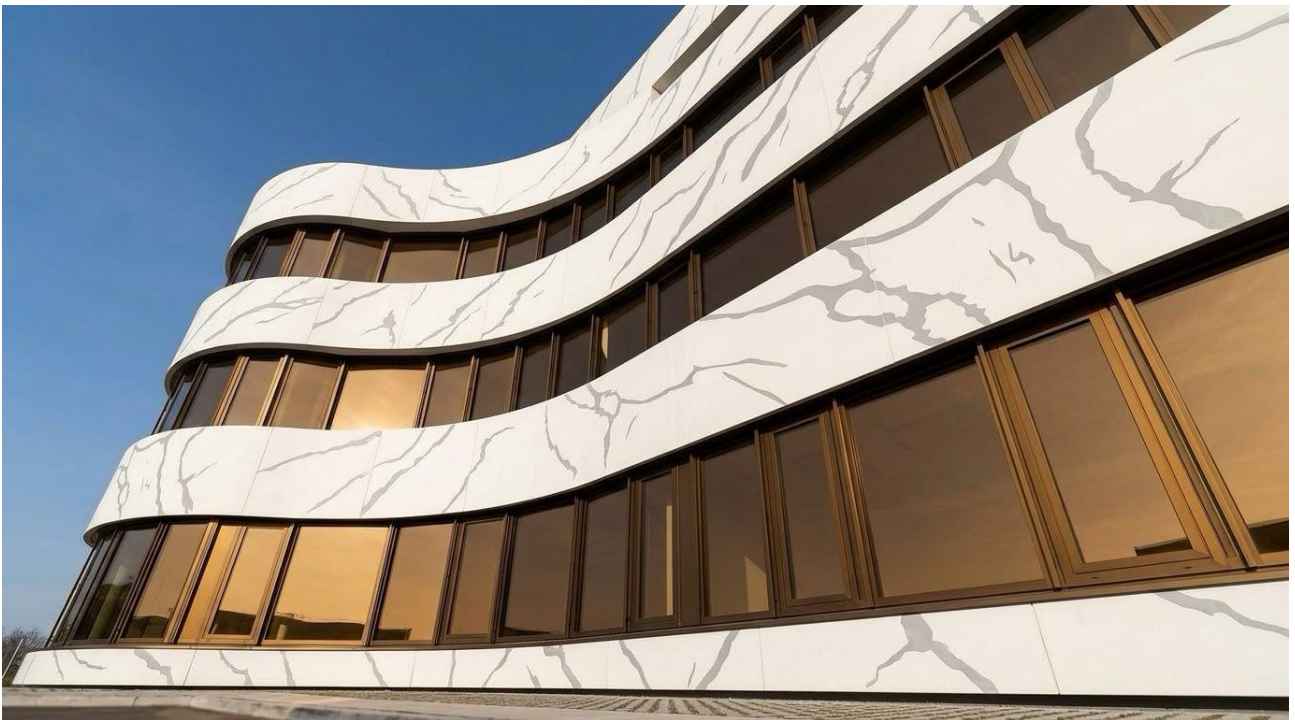


Advanced ventilated facade application using MaryFass Acrylic Solid Surface

1. Features of MaryFass Exterior Cladding

MaryFass is a leading brand of high-performance acrylic solid surfaces, proudly manufactured in Turkey by Gentaş. Our exterior cladding solutions combine aesthetic elegance with unmatched durability, tailored for modern architectural demands.

- **Lightweight Material:** MaryFass is easy to handle and reduces the overall structural load of the building compared to stone or glass.
- **Stable Structural Performance:** High flexural and tensile strength allows for secure installation via mechanical anchoring.
- **Fire Resistance:** Certified as Class B-s1, d0 (EN 13501-1), ensuring maximum safety for high-rise applications.
- **Thermoforming Capability:** Enables unique 3D curved designs, moving beyond traditional 2D flat facades.
- **Optimized for Outdoors:** Engineered for superior UV stability and resistance to extreme thermal expansion and freeze-thaw cycles.



Eye-level view of a modern building facade with calacatta corian panels

2. Physical Properties

MaryFass products undergo rigorous testing to meet international standards (ISO, ASTM, DIN). Below are the typical technical results for our 12mm thickness exterior sheets.

PROPERTY	METHOD	TYPICAL RESULT
Specific Gravity	DIN ISO 1183	1.74
Weight (12mm)	-	21.0 kg/m ²
Flexural Modulus	EN ISO 178	9030 MPa
Flexural Strength	EN ISO 178	64.5 MPa
Thermal Expansion	ASTM D696	$3.6 \times 10^{-5} / ^\circ\text{C}$
Water Absorption	ASTM D570	0.04%
Fire Resistance	EN 13501-1	B-s1, d0
UV Resistance	ASTM G155	High Stability (10+ years)



Coastal Architectural Masterpieces in Kaş, Turkey / Facade Engineering Projects

3. Recommended Exterior & Interior Colors

Discoloration due to UV radiation is a critical factor for surface materials. Based on ASTM G155 accelerated weathering evaluations, MaryFass recommends the following colors for long-term indoor—outdoor usage (expected $\Delta E \leq 5$ over 10 years).



Note: For full color catalog and technical datasheets, please visit www.maryfass.com.



Premium solid surface panels, manufactured & ready to elevate interior/exterior design project.

4. Sheet Fabrication & Design

Thermoforming

MaryFass sheets become flexible when heated to approximately 160°C for 30-40 minutes. They can then be formed using custom molds to create organic, curved shapes for architectural features.

Engraving & CNC Milling

Text, patterns, or logos can be precision-milled into the surface. Translucent light-application colors allow for backlit signage and artistic luminous facades.

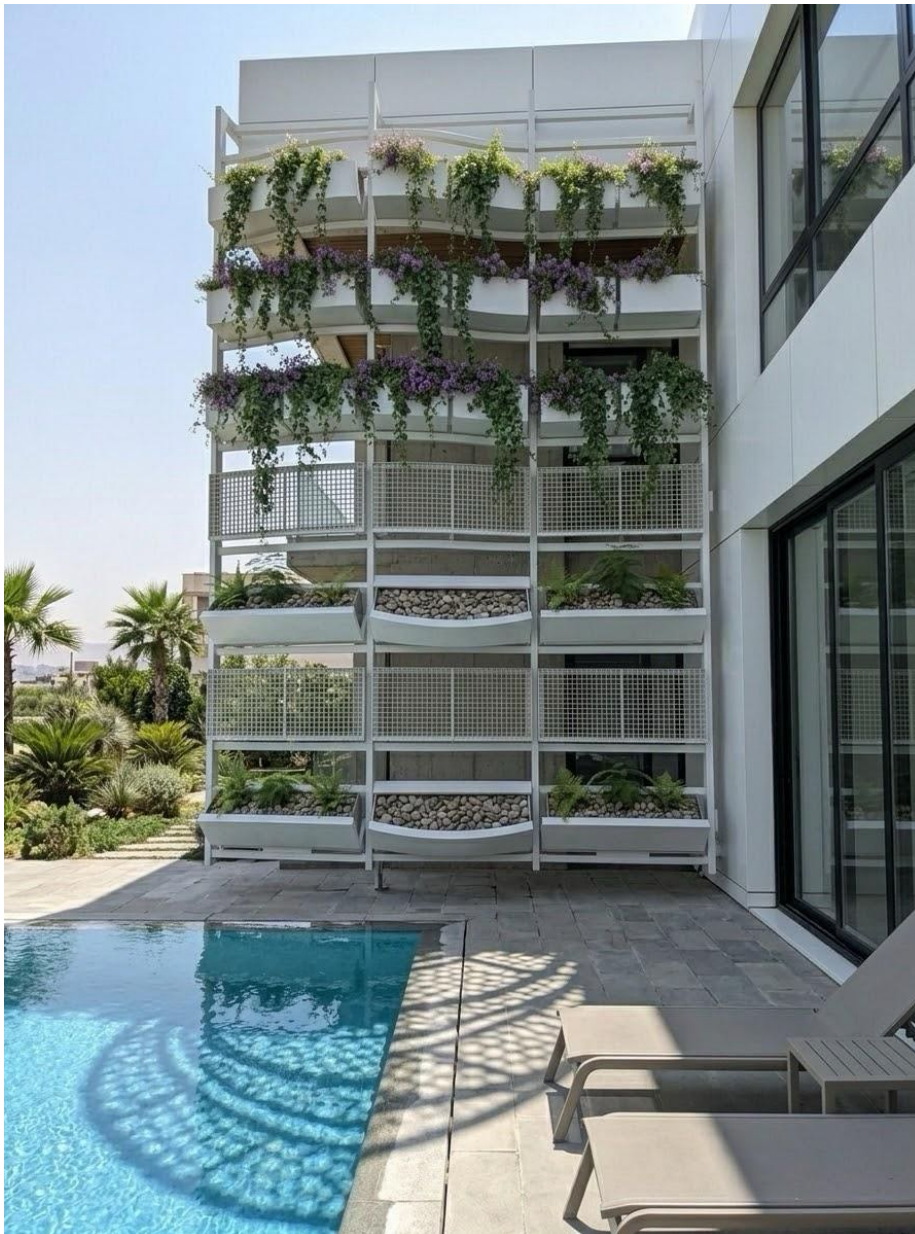


Interior application showing thermoforming and seamless joint capabilities (Marble Finish).

5. Installation: Ventilated Façade System

The recommended installation method for MaryFass cladding is the **Ventilated Façade System**. This system provides an air gap between the building wall and the cladding, allowing moisture discharge and enhanced thermal insulation.

- **Anchoring System:** Fastening via undercut anchors (KEIL or Fischer) for maximum mechanical security.
- **Aluminum Framework:** Uses lightweight 6060 aluminum alloy for superior corrosion resistance and flexibility.
- **Expansion Gaps:** A thermal expansion gap of 8-10mm is typically maintained between panels.



Integrated planter and sunshade system using MaryFass solid surface technology.

6. Modern Design Case Studies

MaryFass provides versatile solutions for both interior and exterior architectural elements, ranging from complex facade structures to custom furniture and artistic installations.

The deep black, thermoformed solid surfaces featured in “below photo” showcase sculptural, continuous curves that absorb light to create a dramatic, monolithic focal point for luxury interiors.



Custom sculptural staircase in black speckled MaryFass Solid Surface.

7. Premium Cladding Solutions for Sensitive Projects

For highly sensitive architectural developments requiring exceptional durability, hygiene and aesthetic precision, MaryFass utilizes DuPont™ Corian® panels for exterior wall cladding. Engineered for demanding environments, these panels offer superior weatherability, structural flexibility, and advanced fire-rated performance.

Hotel



Reges, Luxury Collection Resort & Spa, located in the Boyalık area of Çeşme, İzmir - Turkey.





The crisp, UV-stable solid surface panels are arranged in a sleek architectural pattern, An advanced commercial rainscreen facade utilizing large-format DuPont Corian panels. This exterior demonstrates the material's structural integrity when mounted on an aluminum subframe with a concealed anchoring system.



The pristine, weather-resistant solid surface provides a clean, geometric grid, offering both high-performance durability and a contemporary, highly engineered aesthetic for modern industrial facilities.

Corian® Exterior Cladding Specification Text

Acrylic polymer composite wall panel material

- Nonporous, homogeneous material maintaining the same composition throughout the part with a composition of acrylic polymer, aluminum trihydrate filler and pigments
- Manufacturer: DuPont™ Corian® Exterior Cladding Material by DuPont;
www.corian.com
- Thickness: [12mm] [19mm (for specific applications)]
- Finish: Provide panel with uniform finish characteristics: [Matte] [Semi-Gloss] [Gloss]
- [Thermoform panels in shapes as indicated in Drawings.]
- Colours:
[Glacier White] [Designer White] [Raffia] [White Jasmine] [Bisque] [Bone] [Cameo White] [Clay] [Light Ash] [Vanilla] [Distinct Tan]
[Ethereal Azure] [Deep Anthracite] [Deep Night Sky] [Deep Nocturne] [Abalone] [Aurora] [Dove] [Dusk] [Eclipse] [Everest] [Linen] [Mojave]
[Antarctica] [Beige Fieldstone] [Fossil] [Sahara] [Savannah] [Whitecap] [Glacier Ice] [Lime Ice] [Mint ice] [Venaro White]
- Joint type: [Overlap] [Open] [Seamed]
- Fire rating: [Euroclass B,s1,d0] [Euroclass C,s1,d0]
- Material Warranty : Corian® panels installation has to be fabricated by an authorized certified EC converter to be covered by the Corian® Solid surface 20 years Product warranty
- Certification:[CSTB certified, “Avis Technique” including Seismic] [European technical approval – ETA] [CWCT Certified] [Polish ITB technical Approval]
- The fabrication and installation of the panels shall be done in accordance to the technical guidelines as specified in the product bulletin: “DuPont™ Corian® as an external cladding solution”

Fixing Corian® Cladding panels

- Corian® Exterior Cladding Material panels are mechanically fixed to a durable (aluminum or Stainless steel) substructure fixed to the external wall of new or existing (retrofit) buildings.
- Corian® exterior cladding material panels must be mounted on an adequate substructure with corrosion resistant fixings in such way the panels are not subject to any kind of tension and can move (expand and contract) freely, relative to one fixation point of each panel.
- The substructure (fixing system) usually used to mount Corian® panels is a mechanical fixing system based on an aluminum grid system, consisting of vertical profiles, mounted on brackets to connect to the wall. The substructure supplier has to check the substrate, according to official construction recommendations
- A static calculation must be shown for the panel dimensions, fasteners, connectors, substructure, wall brackets, and anchoring.
- Wall brackets are designed with both fixed and flexible points to allow for thermal expansion of the profile.
- The cladding panels are hung on the horizontal profile by the clamps that are attached in a concealed (No through fastener) way to the panel with a specific undercut invisible fastener: Keil Ref: 7.555.020.804 anchor AA Hs = 7
- Other fasteners: suitability must be shown with a certification.
- Number and location of fasteners: Consult with your sub-frame supplier for recommendations and details.
- The facade structure must be build according to the construction details. The contractor must present a verifiable structural calculation and construction drawings before installation begins.
- The thermal expansion of the panels must be taken into consideration. In order to avoid tension and possible cracking, the expansion gap (joint width) in the panel must be as large as the expected expansion (rule of thumb: 3mm /meter of panel in all directions)
- Air gap: 20 mm minimum. Consult with your sub-frame supplier for recommendations and details.
- Wall brackets and profiles have to be CE marked according to EN 1090 of alloy EN AW 6063 T66 , otherwise from a local source according nationally approved standards.



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Manufacturer of MaryFass Acrylic Solid Surfaces - Düzce/İstanbul , Turkey

www.maryfass.com

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