

Natural Stone Quartzite



Madreperola
Polished



Spa White
Velvet



White Macabus
Polished

Natural stone provides a beautiful array of textural patterns and color variation. The white hues of quartzite blend well with the proposed color palette of the facade, while warm tones inherent to the stone provide a natural, organic quality as an accent to the modern geometry of the building. With quartzite, and natural stone in general, there are several unique challenges that must be considered.

Aesthetic Concerns:

Slab size is limited by transportation and installation constraints. The affect of this is many seams over a large distance. Slab size can also have an effect on cost and construction time. Additionally, color and pattern consistency can vary greatly over large areas. With stone being a natural and raw material, variation is unpredictable and “out of our hands” so to speak. A sustainable Corian solid surface can provide a beautiful pattern and texture array that is consistent and virtually seamless over large distances.

Sustainability Concerns:

Although stone is natural, it is a non-renewable material. The environmental impact and carbon footprint of quarrying and transporting stone can be quite significant. Also, unlike Corian, stone cannot be easily repaired if damaged.

Maintenance Regime:

The micro-porosity of stone is a cause of staining/aging and mold growth, seen on many of the stone and concrete buildings in the DC area. To combat this, a strict regiment of sealing and maintenance is required. Even with proper maintenance, a certain amount of discoloration is virtually inevitable with most stones, and especially lighter colored ones.



CORIAN Finishes



Designer White
Corian



Seafoam
Corian

Corian is a manufactured solid-surface alternative to stone that can provide many of the same qualities and benefits while reducing some of the challenges inherent to a stone material.

Aesthetic Benefit of Corian over ACM or Stone:

The seamless-like assembly of the Corian will provide a strong design accent in contrast to the modulated panels of the ACM elsewhere on the facade. Dupont makes a seaming adhesive that is the same material as Corian that welds the material together, so the size of the panel is only limited by the size that can be handled on site and the required expansion joint configuration in the IBC. Corian is also non-porous, renewable, and repairable in place.

Sustainable Benefits of Corian:

Corian has LEED points, and is Greenguard Certified. Corian is sustainable over the life of the building without the need to be replaced.

Maintenance Benefits of Corian:

Corian is totally non-porous, so it will not stain. Routine cleaning is with soap and water. If Corian is scuffed, it can easily be repaired with a scotchbrite pad or sand paper if necessary. Corian is extremely durable and long lasting and should last the life of the building.



Natural Color-Shifting Panels



Alucobond Spectra
Sakura

Corian
Designer White

Of the two finishes selected for the alternating metal panels on the facade, one of the materials is an Alucobond Spectra finish. The Spectra Sakura finish has a base color that has an appearance of silver, with a color shifting iridescence that transitions from a green to purple depending on lighting conditions and viewpoint. The particular color was intentionally selected to animate the facade with movement and **varying hues in both cool and warm color temperatures.**

With this particular selection covering roughly **25-30% of the building facade**, the impact to the overall color palette of the building will be substantial.

In an effort to intensify the presence of a specific color, a common tenant of color design is to accent the color with a high contrast neutral tone of white or black. In the proposed design, a simple white Corian accent along with white metal infill panels will help strengthen the dominance of the color shifting panels in the overall color palette of the building.

% Facade Coverage	
51%	Alucobond <small>(combined)</small>
11.6%	Vision Glass
6.4%	Illuminated Glass
19.9%	Metal Mesh
1%	Green Wall
9.9%	Accent Strip
.2%	Cornice



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Natural Color-Shifting Panels



Merchants Bank | Shanghai | China

Alucobond Spectra
Sakura

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Relating Material Alternative
A-17



Design Intent

The "ICON" column and horizontal datum were designed as a contrasting accent to the articulated panels above and below, and help to develop a hierarchy of materiality and texture on the facade. The appropriate accent to compliment the random panel layout and color shift is a simple unbroken surface with a neutral color.

If a natural or organic material is necessary, both the stone and Corian examples most closely meet our design intent. That said, by adding an additional accent material or by decomposing the simplicity of the solid white accent with an organic pattern, the organization of the facade elements becomes muddy and the design rationale is diminished.



Stone patterned accent



White accent