

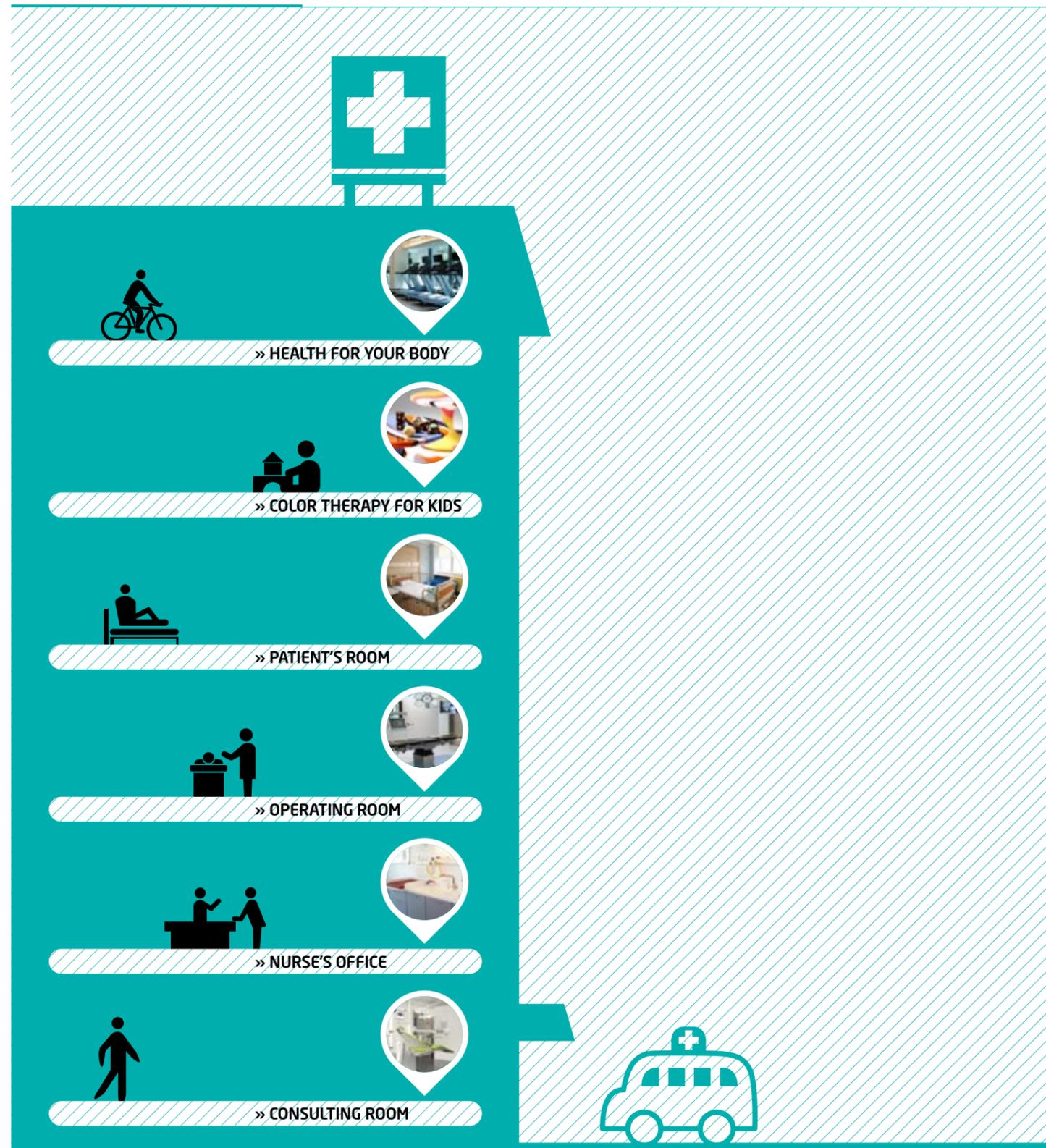


SAMSUNG SDI

Healthcare

Architectural Manual

staron[®]
Solid Surfaces



Hygienic, long-lasting design for all medical spaces.

Function. Form Flexibility. Staron makes it all possible.

Strict quality control

Samsung's strict quality control standards consistently deliver superior products every time.

Non-porous, highly hygienic material

Staron's non-porous surface is not affected by moisture, making it highly resistance to mold and bacterial growth. Its surface is easy to clean and sanitize by simply using generic cleaning solutions used typically in healthcare environments.

Excellent durability

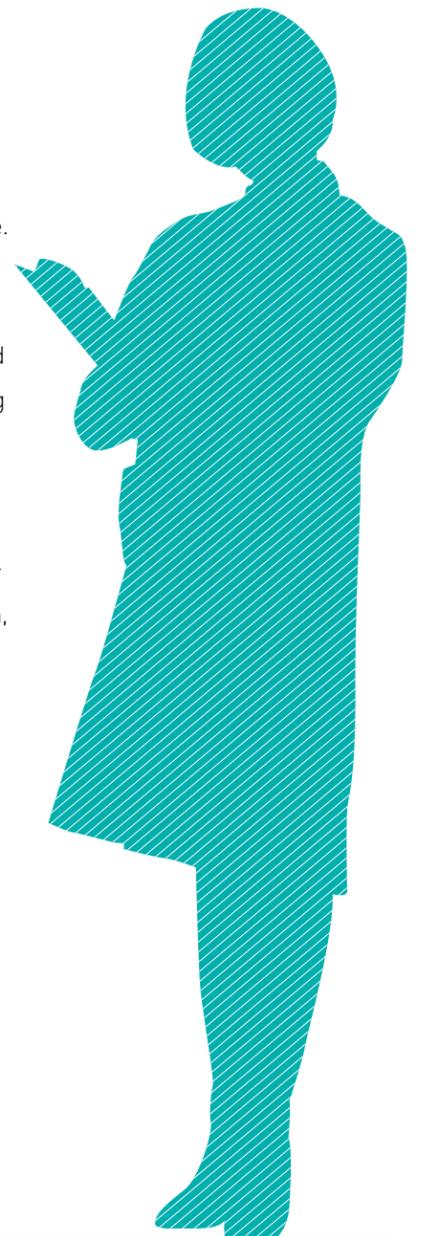
Staron is a high performance all-acrylic material. When compared to plastic laminates, it far exceeds in strength and long-term durability. Plus, in the event of accidental damage, Staron, in most cases, can be easily repaired and returned to a new condition.

Comforting design appeal

Trends in healthcare interior design have moved away from a clinical look and feel. Instead, designers strive to create functional interiors using color and patterns that provide a sense of well-being.

Eco-friendly certification

With Staron's eco-SCS and GREENGUARD certifications, designers can create interior spaces knowing the materials are manufactured to strict standards and do not release harmful VOCs.





STARON : ACRYLIC SOLID-SURFACING BY SAMSUNG

Staron is the sleek, sanitary and affordable surfacing material for any medical environment.

Hospital interiors, without exception, require hygienic and functional design. Staron's contaminant-resistant surfaces offer an array of creative and flexible design applications. Because of its non-porous and virtually seamless surface, Staron will not promote bacterial growth, is easily sanitized and repaired, providing long-term value and a compatible design aesthetic.





A walk through a hospital and medical clinic

Staron can be crafted to various shapes and configurations throughout any healthcare facility interior. The adhesive process allows the materials to be formed into fully integrated, seamless shapes, virtually eliminating crevices where bacteria can hide and increase health risks to patients. Staron's non-porous composition results in a hygienic and repairable surface, meeting the essential needs for sanitary surfaces that are resistant to pathogens.

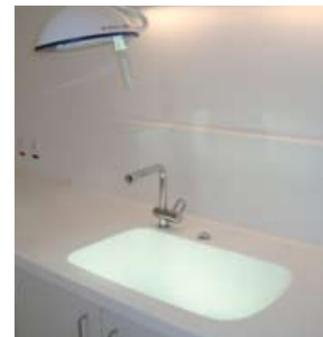


DMACC Dental in U.S.A

Functional Features

Chemical resistant Staron solid surface is frequently used in hospitals because chemical contaminants can be easily removed from the surface of the material.

Seamless Staron solid surface can be integrated as a seamless unit so that mold or bacteria growth is not possible. It is a sanitary and clean material that makes for a healthy environment.



Kantonsspital's Neonatal intensive care unit in Switzerland

Resistance to Common Chemicals and Contaminants

Chemical	Result	Chemical	Result
Ammonia		Citric Acid 10%	
Blood	No Effect	Benzene	No Effect
Ethanol		Gentian Violet	
Acetone		Disinfectant	

Seamless





St. Joseph's Hospital in U.S.A

Functional Features



Non-porous material Unlike other finishes of natural stone, Staron has a non-porous surface that is water resistant. It prevents any bacterial growth and makes it easy to manage surface contaminates.

We are committed to safe and healthy environments

Staron solid surface has been engineered to provide durable and repairable surfaces for hospitals and other healthcare environments where hygiene and the use of eco-friendly materials is a top priority.



Operation Room in Taiwan



Samsung Medical Center in Korea



Bacterial resistance

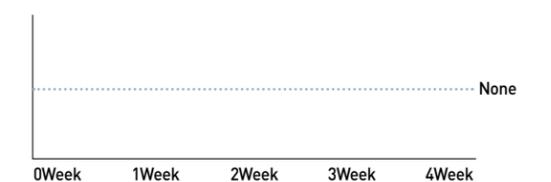
Test result

A common bacteria, Pseudomonas Aeruginosa, was applied to the surface of Staron acrylic solid-surface and left untouched. After 4 weeks, the area was tested for bacterial growth; the results showed no bacterial proliferation.

- **ASTM G22**
Determining resistance of plastics to bacteria
- **Strains**
Pseudomonas aeruginosa (ATCC 13388)
- **Culture Condition**
96.8 +/-1.8°F (36 +/-1°C), 90% RH, 21day



Observed growth on specimen





Samsung Human Resources Development Center in Korea

STARON, Make up your life

Staron is with you in the relaxing retreat spaces

We are more conscious of our health and healthy living. Staron is with you to make those healthy choices. Staron protects you with our safe, environmentally friendly building materials that reduce hazardous substances and help you live a healthy lifestyle.



Samsung Human Resources Development Center in Korea



Color therapy :
Designing at a higher level.
Endless possibilities.

Colors can positively alter patients' emotions, mood, and overall well being. Staron Solid Surfaces are available in an array of more than 65 colors and patterns, inspired both from nature and designers' preferences worldwide. This variety makes Staron the optimal choice when creating an ambience that is aesthetically appealing and practical in any interior space.

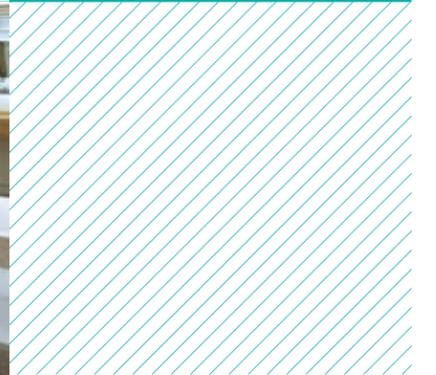


COLOR THERAPY

Using color therapy, you can bring balance to a person's mind and body.

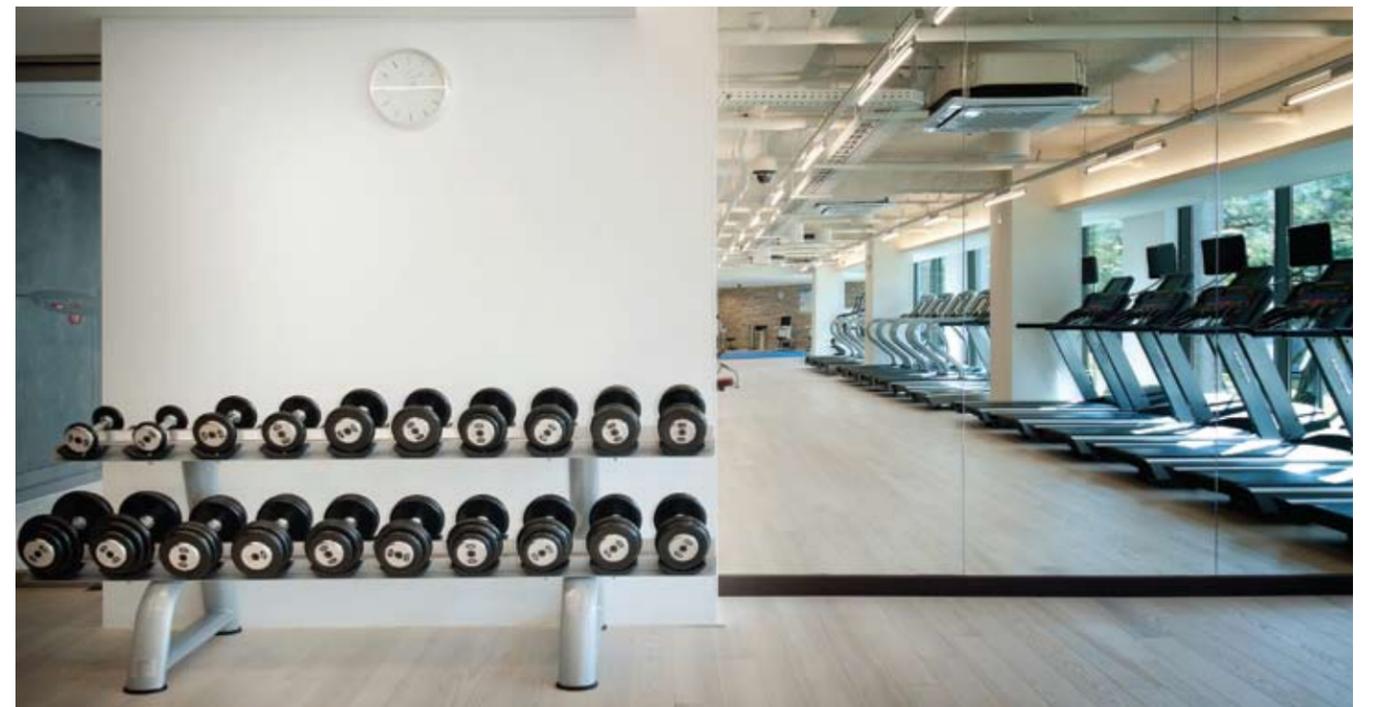


Samsung Human Resources Development Center in Korea



Optimizing the maintenance
to sustain a sanitary environment,
Staron encourages a healthy life

Staron's interior material will protect your health with its sweat and dirt resistant surfaces that is easy to main and clean. From Tables to Sinks, and even exterior walls, Staron's variety of uses can keep you healthy.



Samsung Human Resources Development Center in Korea



Chemical testing results

Staron has been tested for its ability to resist to various chemicals and contaminants found commonly throughout hospitals and healthcare facilities. The contaminants and solvents listed below were applied to the surface and then covered with glass plates for 16 hours. The surfaces were then cleaned with anti-bacterial cleaning solvents to measure the data accurately.



Contaminants

- Ammonia • Blood • Ethanol
- Disinfectant • Benzene • Acetone
- Citric Acid (10%) • Gentian Violet



Result

Most pollutants can be easily removed using anti-bacterial cleaning solvents.

Performance properties

PROPERTIES	TYPICAL RESULTS	TEST PROCEDURE
Tensile Strength	6000psi	ASTM D638
Hardness	92 Rockwell "M" Scale 65 Barcol Impressor	ASTM D785 ASTM D2583
Gloss (60 Gardner)	Between 5-20	NEMA LD-3
Abrasion Resistance	Pass	ANSIZ 124
Stain Resistance	Pass Rating 41	ANSIZ 124
High Temperature Resistance	No Effect	NEMA LD-3
Fungi and Bacterial Resistance	No Growth	ASTM G21, G22
Flammability	Class A / Class 1	ASTM E84 (UBC 8-1)
Toxicity	84.4g (Solid Color)	Pittsburgh Test Protocol (LC50 Test)



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