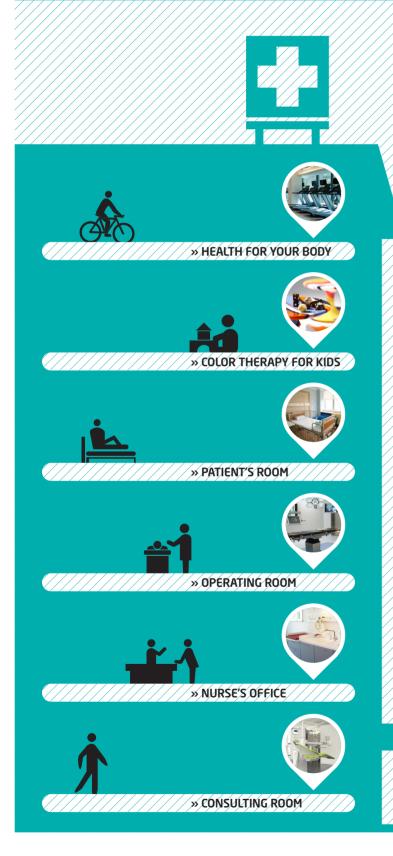
SAMSUNG

Health Care

Architectural Manual



HEALTH CARE INTRO



Best medical service. a reliable space. Staron makes it for you

Strict quality control

Cheil Industries has strict quality control standards in order to supply superior products. We will present Staron's consistent properties and satisfy you with a stable quality.

Non-porous highly hygienic material

Unlike natural stone surfaces, Staron is non-porous and impervious to moisture, making them highly resistant to bacterial growth. Most pollutants can be easily removed from the surface with soup and water.

Excellent durability

Staron is made of all-acrylic materials and when compared to laminates or plastics, it exceeds in strength and long-term durability. In addition, in case of contamination or damage, it can be easily repaired as if new.

Excellent workability and implementation of various designs

Staron is extremely durable but also can be easily handled by using wood working tools and thermo processes to create various cuts and shapes. In addition, with the use of adhesives, seamless joints can be created. It also works harmoniously with other materials such as wood and metals and offer endless possibilities.

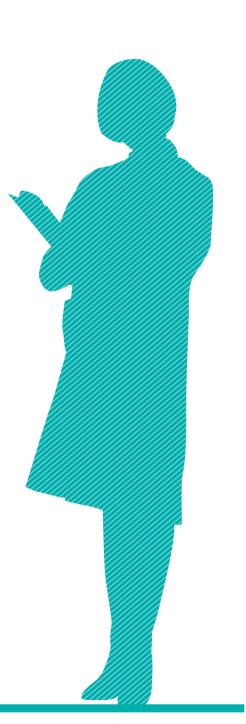
Eco-friendly certification

Buildings with hazardous building materials can be fatal to a patient with weakened immune systems. Staron is certified eco-SCS and can be used with confidence.











STARON, Can innovate your mind

Use Staron to offer the best medical service and safe environment.

Staron solid surface can be applied in various ways in the hospital. Not only can the material be easily formed to the desired shape but because of its contaminant resistant surfaces, it is a useful material to use in hospital interiors. For patients that spend long periods of time in the hospital, the environmentally friendly material is beneficial for the stability of the patient's health and peace of mind.





HOSPITAL CONSULTING ROOM / NURSE'S ROOM

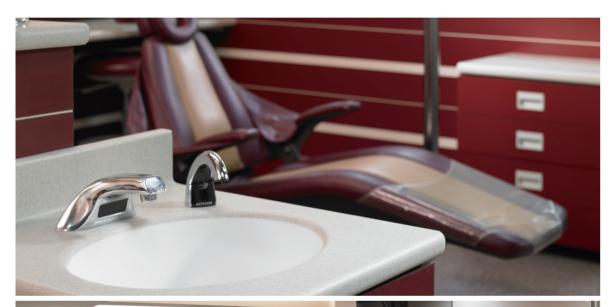
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A walk through hospital

Staron can facility the various shapes of hospital interiors. With the adhesive process, forms can be integrated into a seamless shape, reducing crevices that can spread contamination and protect patients from germs. The non-porous surfaces resist mold growth and germs from growing below the surface. The characteristics of this material are sanitary and are essential for materials used in the interiors of hospitals.





Dmacc Dental in U.S.A









Kantonsspital's Neonatal intensive care unit in Germany

K Chemical testing

chemical	result	chemical	result	
Ammonia	TEST OK	Citric Acid 10%	TECT OV	
Blood		Benzene		
Ethanol		Gentian Violet	TEST OK	
Aceton		Disinfectant		





HOSPITAL OPERATION ROOM / PATIENT'S ROOM

SAMSUNG





St.Joe's Healcare in U.S.A

We are committed to making safe spaces for the most important moments.

Staron solid surface is a safe interior material for hospitals where hygiene and eco-friendly environments are a top priority.



Operation Room in Taiwan



Bacterial resistance

Test result

A popular bacteria Pseudomonas Aeruginosa was applied to the surface of Staron and left there for 4 weeks to grow. When the area was tested for bacterial growth, the results showed no bacterial proliferation.

ASTM G22

Determining restance of plastics to bacteria

Strains

Pseudomonas aeruginosa (ATCC 13388)

• Culture Condition

96.8 +/-1.8°F(36+/-1°C), 90%RH, 21day



1 Observerd growth on specimen

				No
0Week	1Week	2Week	3Week	4Week





STARON,

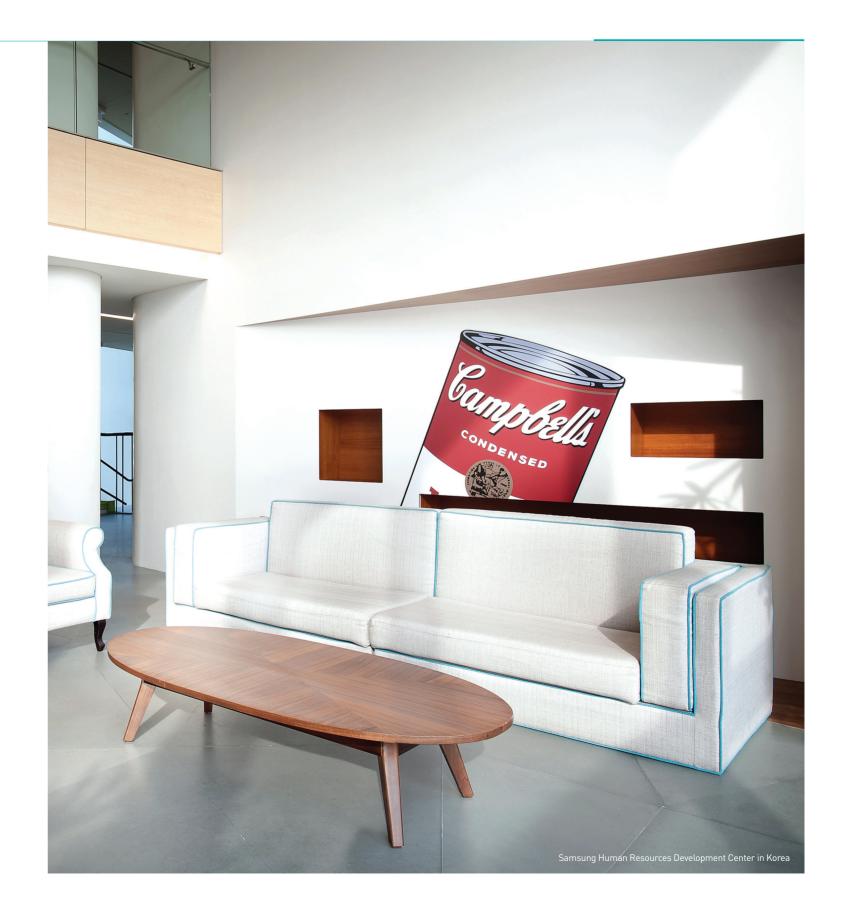
Make up your life

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.

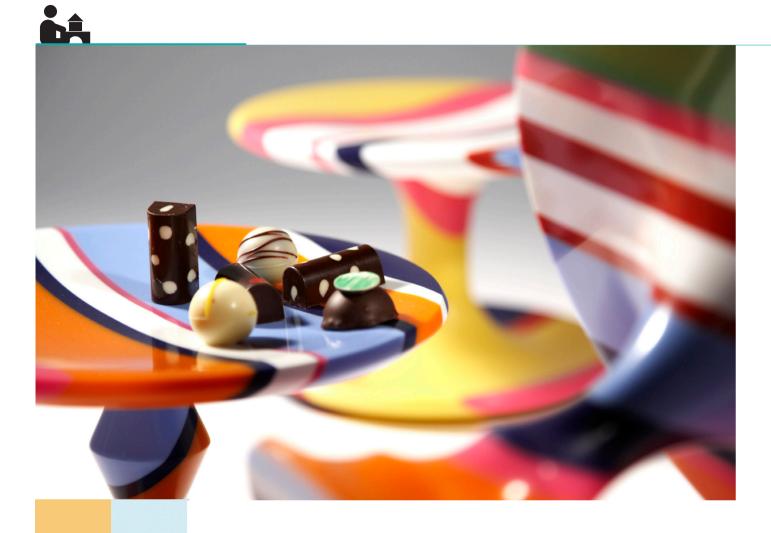






HOSPITAL





Color therapy for kids, Staron is making it.

Staron is available in 300 special colors to preserve the balance of body of mind and assist in the emotional development of our children in their creative spaces. Staron's natural colors and patterns inspired from nature is an optimal choice for these spaces.



COLOR THERAPY

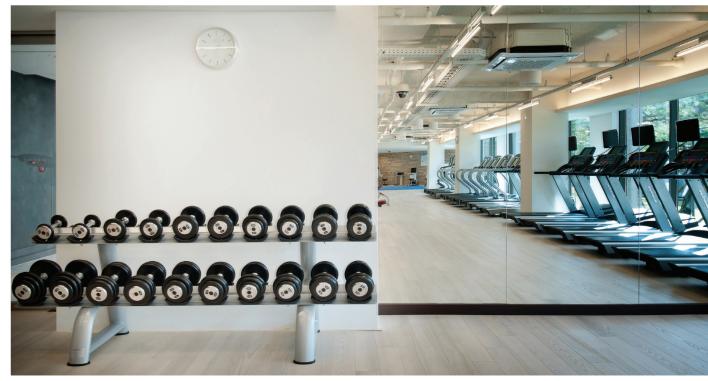
Using color therapy, you can bring balance to a person's mind and body.



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

HOSPITAL

TEST RESULT







Chemical testing results

We conducted chemical tests on various surface contaminations prone to exist in Hospital and heath care space. These contaminants were dropped onto the surface and covered with glass plates for 16 hours. Surfaces of these areas were then scrubbed with damp pads with detergent and tested for the results.



Contaminants

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



Result

Most pollutants can be easily removed from the surface with damp pad with neutral detergent.

Comparing Staron to other products

Staron is durable but also easy to work with.

The differentiating advantages are its reliable quality and ease of use unlike other products.

Attributes	Staron solid surface	Polyester solid surface	Engineered stone	Granite	Stainless steel
Ease of maintenance/ Cleanability and repair	3	3	2	1	2
Does not support microbial growth	3	3	3	1	3
Nonporous smooth	3	3	3	1	3
Low flammabililtiy	3	2	3	3	3
Durable	3	3	3	3	3
Low VOC	3	3	3	3	3
Low smoke toxicity	3	1	3	3	3
Initial and life cycle cost effectiveness	3	3	3	1	2
Slip resistance-appropriate coefficient of friction	3	3	3	3	2
Ease of installation, demolition, replacement	3	3	1	1	2
Seamless appearance	3	3	1	1	3
Control of reflectivity	3	3	2	2	2
Option for color, pattern	3	3	3	2	2
Nontoxic, non-allergenic	3	3	3	3	3



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