

SAMSUNG

Shop

Architectural Manual

staron[®]
Solid Surfaces



Designers, we represent your thoughts



Elegant textures and variety of colors

Staron materials exceed natural translucent stone with its warm, soft textures elevating any interior design of the highest quality. Upgrade your interiors with any imaginable design idea that can be expressed by the myriad of colors and patterns.

Excellent workability and implementation of various designs

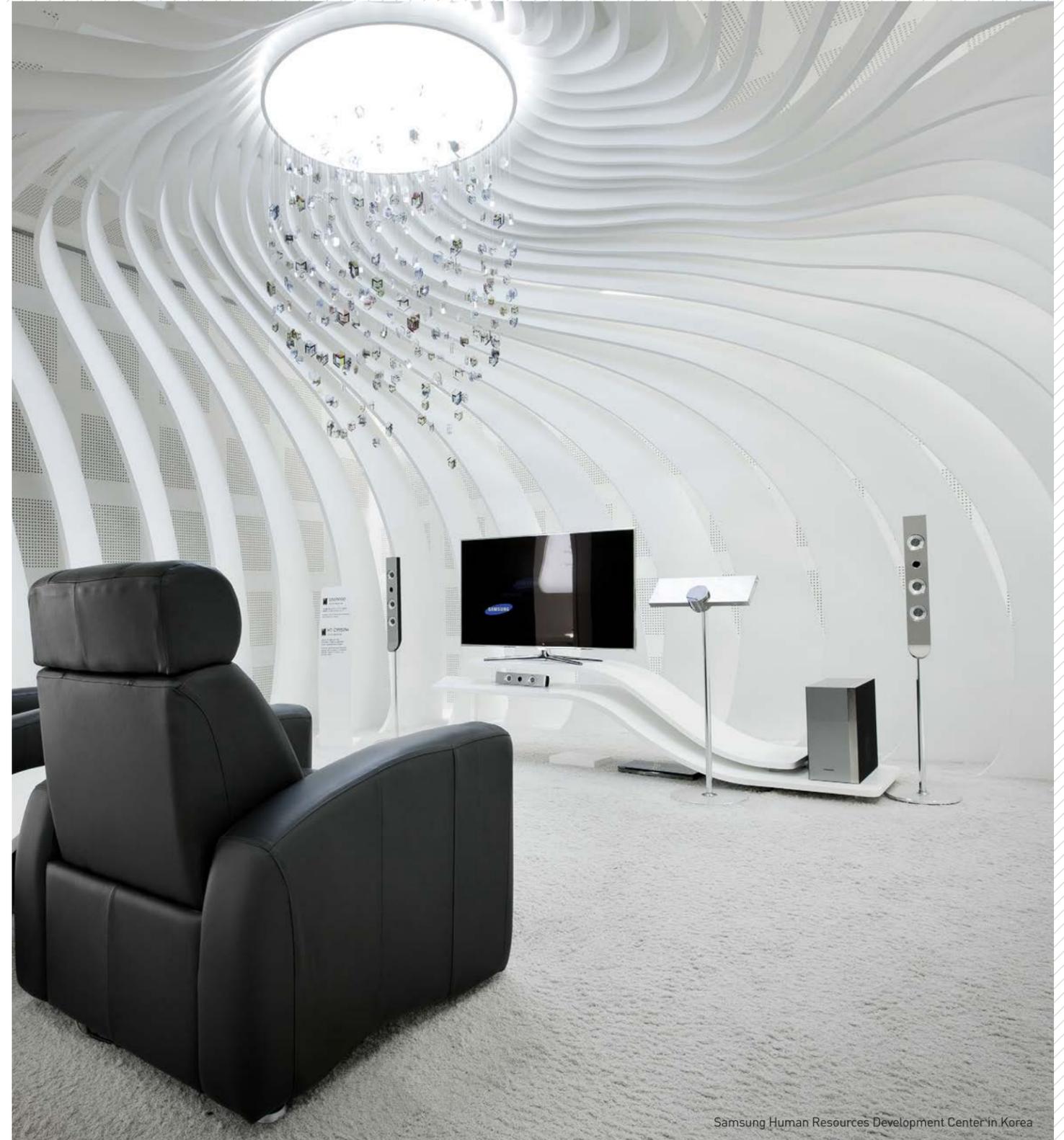
Staron is extremely durable but also can be easily handled by using wood working tools and thermo processes to create various cuts and shapes. In addition, with the use of adhesives, seamless joints can be created. It also works harmoniously with other materials such as wood and metals and offer endless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

SHOP

Staron,
7 special features



Fashion shop | Beauty shop | Entertainment | Mart | Show room



Samsung Human Resources Development Center In Korea



Shoes Shop in Greece



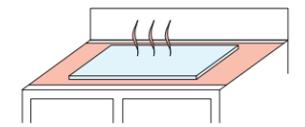
ClubMed in France

Fashion Shop in Germany

Samsung Human Resources Development Center in Korea

Hair Shop in Switzerland

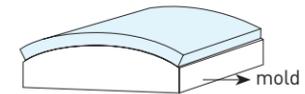
TECHNICAL SOLUTION



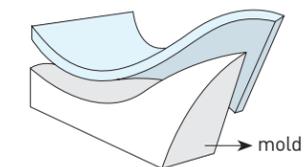
HEATING(Using Oven)



2D Process



3D Process



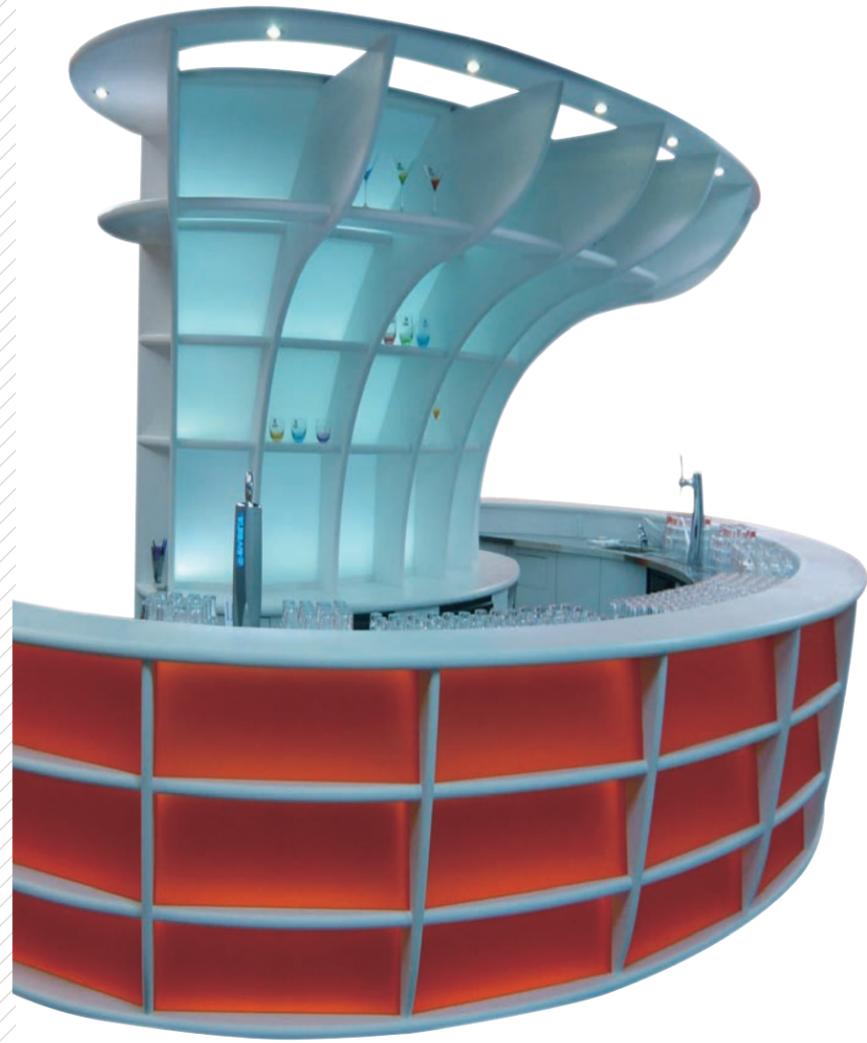
Smooth surface construction

One of the properties of Staron sheets is that it is flexible when heated under a constant temperature. In its flexible state it can be shaped in a mold to create 2D or 3D form to create a smooth surface.

1 SMOOTH SURFACE

Staron, reproducing your imagination

Staron is an acrylic solid surface that can be bent, curved and sculptured to various shapes. A designer can fully reproduce their concepts with these interior finishes. Staron will strive to bring trendy and fantastic spaces for fashion and multi-shops.



2

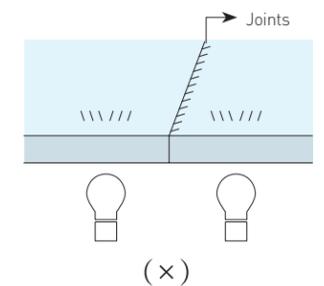
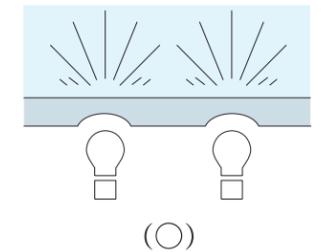
SUBTLE LIGHT TRANSMITTANCE

Complete your design with light

Staron's light transmittance varies depending on the thickness of acrylic solid surface. Processing of the sheets can be adjusted to the amount of light you need such as display or wall constructions of interior spaces.



TECHNICAL SOLUTION



subtle light transmittance

Staron's material thickness affects the illumination of the light. Depending on the space, the level of light emitted can be modified to create a fantastic look to the interior space.

If the light is illuminated in the seams or causes thermal expansion and contraction, it can damage the lighting installation so it is advisable to avoid these areas.

3

CLEAN FINISH

A smart durable material

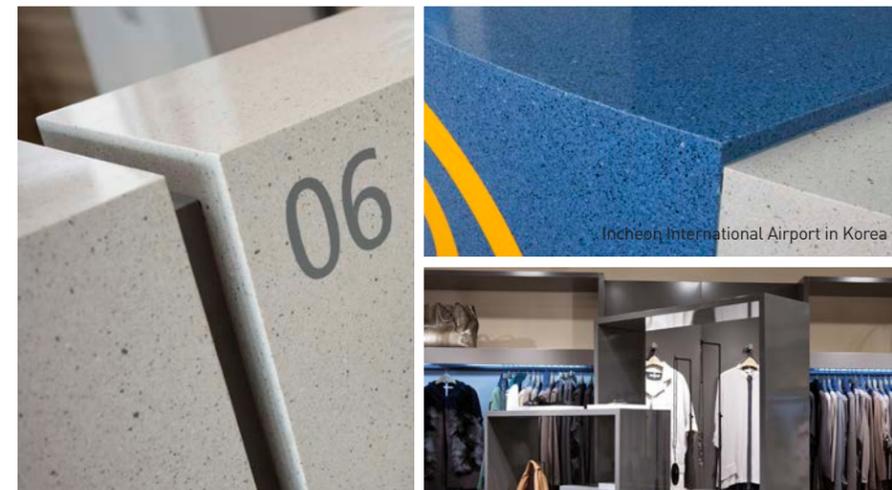
Staron solid surface is extremely durable and can withstand impact created by frequent use by people and products. It is useful as an exhibit stand or as interiors of stores. In addition, even if it is damaged with cracks and scratches to the surface, it can be easily repaired. This helps you prolong the newness of the intended design over a long period of time.



Noon Square in Korea



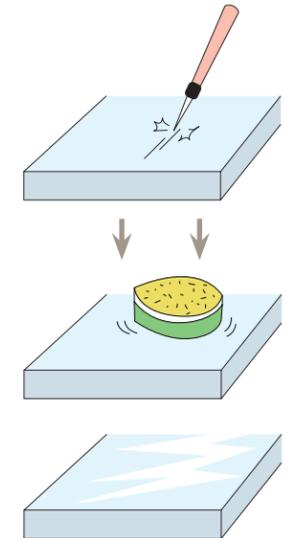
Smoking Lounge in Romania



Incheon International Airport in Korea



KUHO shop in Jeju in Korea

TECHNICAL SOLUTION**Material that is easy to restore**

In the event Staron surface has small scratches or is contaminated, use a soft scrub or a fine Scotch-brite pad to easily remove the damage. For deep scratches and cracks, contact your local A/S retailer store to easily repair the surface.

4

SMOOTH SEAMS

Seamless design perfection

With Staron solid surface, you can integrate multiple sheets to create a seamless clean construction that is convenient to maintain.

Impeccably beautiful showrooms and luxurious interiors emphasized with smooth details can be created with Staron.



Samsung Human Resources Development Center in Korea



Multi Shop in Germany

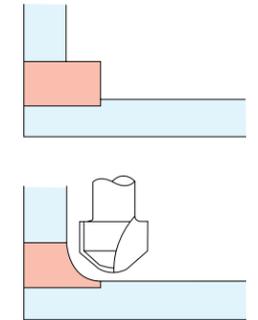


Optic 2000 Optician's in Korea



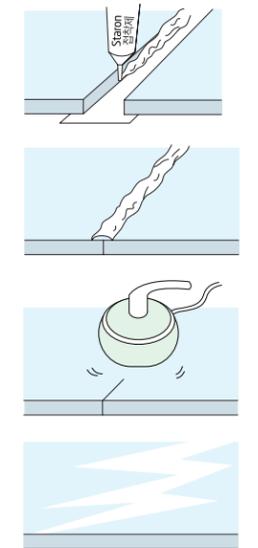
Shoes Shop in Greece

TECHNICAL SOLUTION



Seamless curved finishes

It is possible to create difficult curved shapes with wood working tools.



Smooth joints

Use the adhesive Methacrylate to adhere the joints and sand the surface for visibly seamless completion of the construction.

5

FANTASTIC DETAIL

An artwork where details come alive, Staron

Staron solid surface is differentiated from other interior materials for its rugged functionality and versatility of use that can implement a designer's creative touch into a space. From meticulous and detailed structures to artworks, Staron's possibilities are endless. Meet the special material made for the designer.

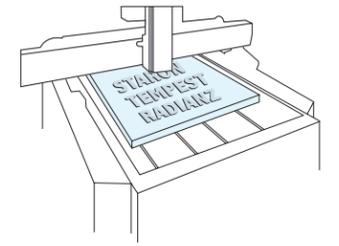
Noon Square in Korea



Noon Square in Korea



Fashion Shop in Germany

TECHNICAL SOLUTIONFreely used with
CNC machines

Unlike the existing natural stone, Staron allows the application of finer details of precision grooves, lettering and more utilizing the CNC machines. This material embodies the best of what the designer wants to achieve.

CNC machining is a method of measuring the fabrication on a computer.



6

COLORFUL DESIGNS AND PATTERNS

Luminous transparent chips of Tempest

Tempest is the first transparent acrylic chip developed in the world. Using specialized coating technology, we offer a premium faux marble option. In addition, based on a systematic color system, we are committed to capturing a designer's thoughts and feelings.

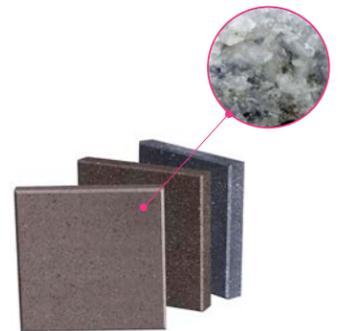


Incheon International Airport in Korea



Samsung D'light in Korea

TECHNICAL SOLUTION



Tempest's transparent acrylic chips

Tempest is a versatile solid surface that can be freely cut to create an effective soft interior.

7

NON-POROUS MATERIAL

Your safe choice, Staron

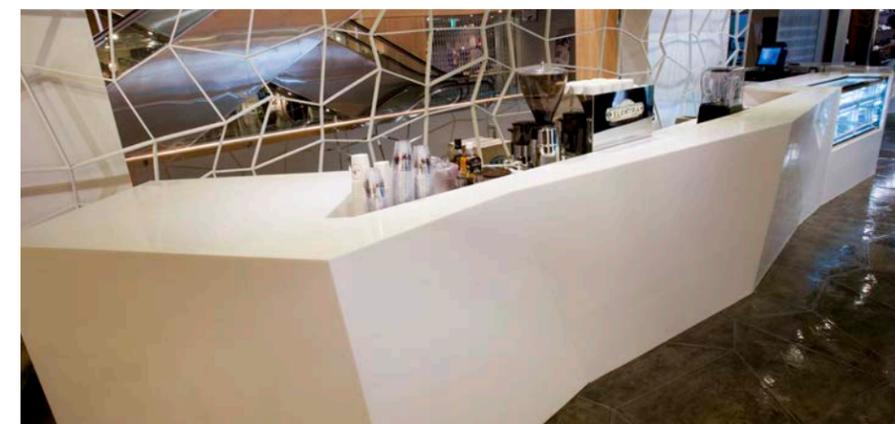
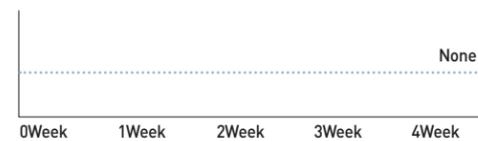
The non-porous surface of Staron makes it impervious to water and deter bacterial growth. It can be used safely in a variety shop interiors. In addition, majority of surface pollutants can be easily removed with soap and water which is easy to maintain and convenient.

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.

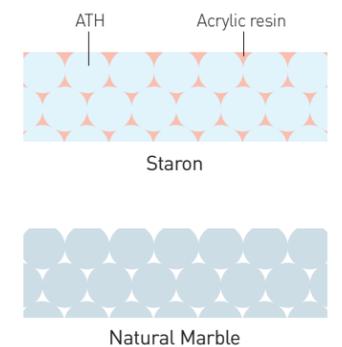
- **ASTM G22**
Determining restance of plastics to bacteria
- **Strains**
Pseudomonas aeruginosa (ATCC 13388)
- **Culture condition**
96.8 +/-1.8°F (36+/-1°C), 90%RH, 21day

Observerd growth on specimen



Noon Square in Korea

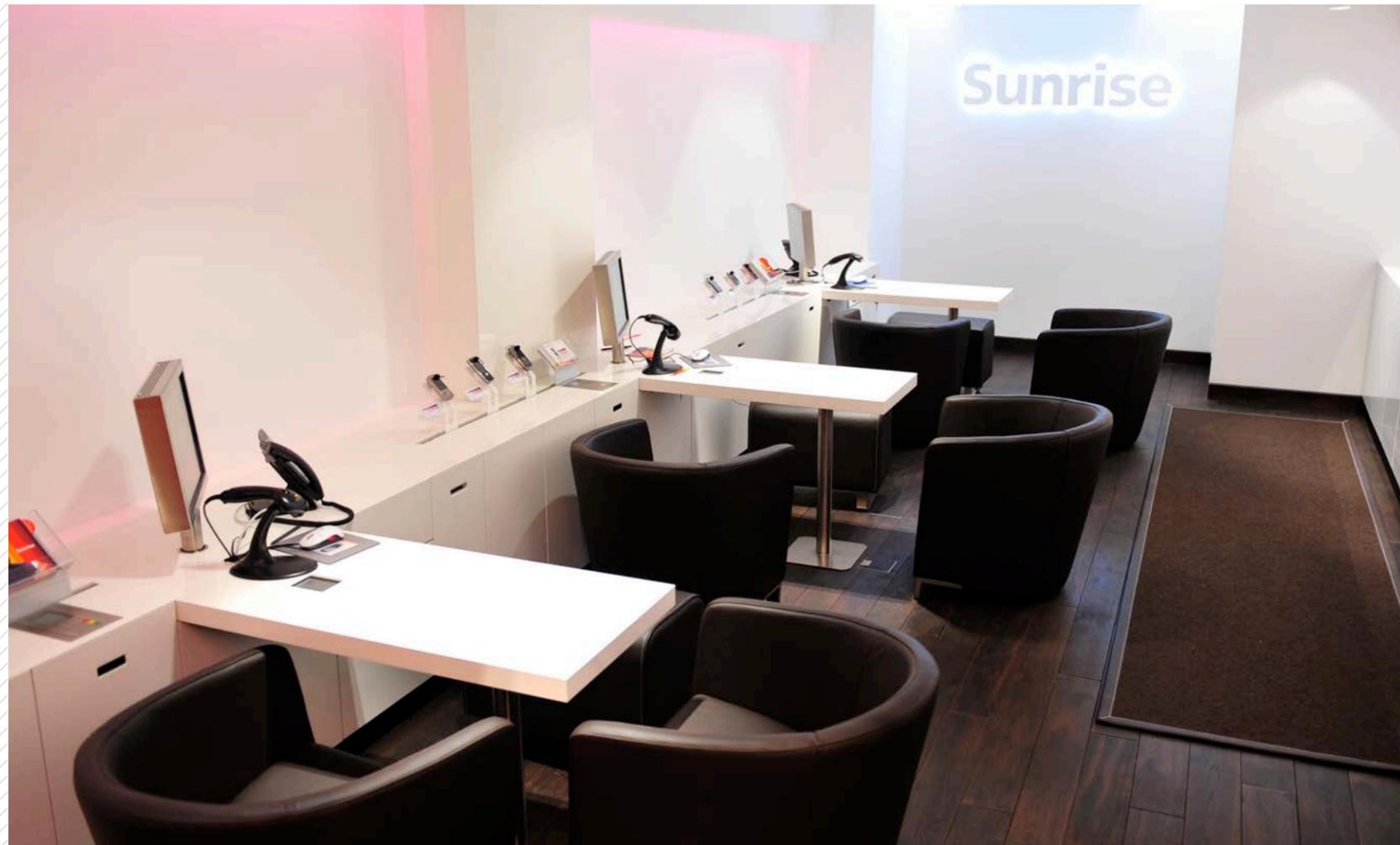
TECHNICAL SOLUTION



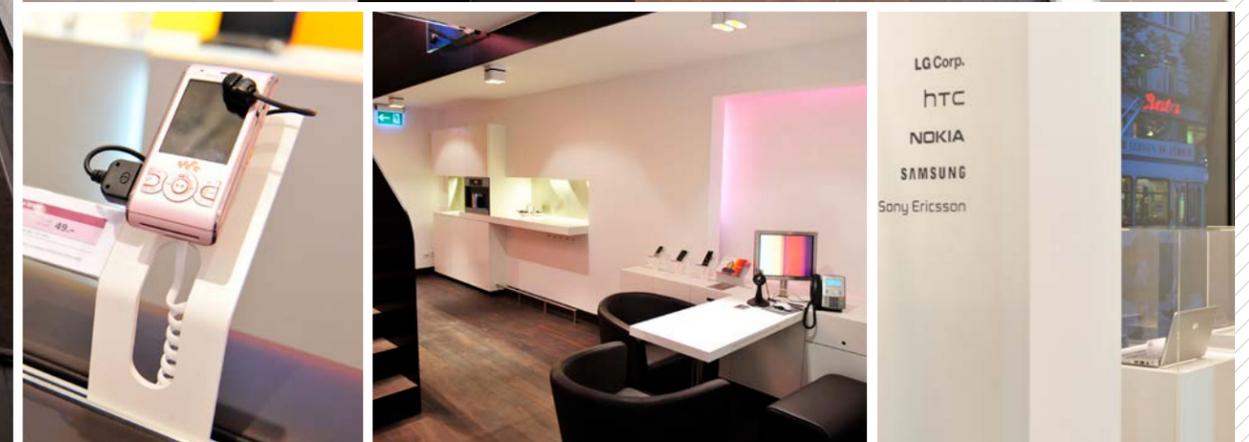
non-porous material

Staron is a non-porous surface so it prevents mold and bacterial growth. Under a microscope, you can see that there is no room for the resin to absorb the MMS. In addition, Staron have very low water absorption ratio and resists penetration of surface contaminants.

Staron is eco-friendly certified,
work in a comfortable and safe environment



Multi Shop in Germany



Multi Shop in Germany

Staron has been tested for various certifications. Staron is accredited with Greenguard and certified to be low-emitting material that leads to better air quality indoors. Staron also received Scientific Certification Systems (SCS) certification for environmental management systems and other operations. We are committed to not only environmentally friendly products but also promoting good health in our lives.



 **Chemical testing results**

We conducted chemical tests on various surface contaminations prone to exist in Shop. 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

- Coffee • Aceton • Disinfectant
- Nail polish • Orange juice



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 flammability	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



www.staron.com

SAMSUNG CHEMICAL (USA), INC.

14251 E. Firestone Blvd. La Mirada, CA 90638 U.S.A.
Tel : +1-562-926-5520, Fax : +1-562-926-9930
+1-800-795-7177

SAMSUNG CHEMICAL EUROPE GMBH

Am Kronberger Hang 6, Samsung House D-65824,
Schwalbach/Ts., Germany
Tel : +49-6196-667-403, Fax : +49-6196-667-467
Free Hotline in Germany : 0800-1-782766

DUBAI OFFICE

Samsung Chemical Europe Gmbh Dubai Rep. PO Box 48969
Flat No 2403, Al Shafar Tower 1, Tecom, Greens, Dubai, U.A.E.
Tel : +971-4-447-3411, Fax : +971-4-447-3412

SHANGHAI OFFICE

Rm2701, Shanghai International Trade Center,
2201 West Yan an Rd, Shanghai, China, 200336
Tel : +86-21-62703000-856, Fax : +86-21-62756882

SAMSUNG CHEMICAL (THAILAND) Co., Ltd.

16th Floor, Empire Tower, Unit 1602-1603, 195 South Sathorn Road,
Yannawa, Sathorn, Bangkok 10120, Thailand
Tel : +66-2-624-6737, Fax : +66-2-624-6780

HEAD OFFICE

332-2, Gocheon-Dong, Uiwang-Si,
Gyeonggi-Do, Korea, 437-711
Tel : +82-31-596-3856, Fax : +82-31-596-3882